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WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

Good Hog Raisers like to stop for a minute and watch a litter of husky pigs. Frank Comp, Madison county, Iowa, was probably wishing for sunshine and green alfalfa pastures when this picture was taken.

Keep 'Em Living-- Keep 'Em Growing

EARLY spring pigs survived a cold, windy March. Early April was cold and rainy.

Pigs were hard to save this year. It has been hard to keep them growing.

But when you get healthy pigs playing around in late April sun, on greening pasture, you've just started.

How many of these pigs will live to go to market next fall? How many will make fast, profitable gains?

Early spring pigs will bring good money when sold. Farmers never had a crop that would pay more for good care.

But what kind of care? Turn to page 5 to see how skillful feeders are handling the same problems you face.

Sell Grass On The Hoof . . . . . Page 8

Pastures Can Be Turned Into Good Steaks—And Cash

How Many Kernels Per Hill? . . . . Page 20

Maybe You Don't Plant Thick Enough For Best Yields

Only Two Rows On 20 Acres . . . . Page 26

He Plants An Entire Field Without Lifting the Runners

Is Your Husband Perfect? . . . . . Page 34

Farm Women Give Orchids To Some, Onions To Others

APRIL 19, 1947

IOWA'S LEADING FARM NEWSPAPER

The Truth about Traction

The truth about traction is—a tractor tire pulls only as well as its lug bars dig into the soil. Everybody knows that.

So to tell how a tire grips, study its tread. On the Goodyear Sure-Grip pictured here, you see that its lugs are unconnected—o-p-e-n at the center. Each has its own bite edge in the traction zone, where it's needed most.

As this tire rolls, each lug cuts cleanly through stubble and digs in full depth, full length, without tearing the soil loose. That's why it grips and pulls better than connected-bar tires, especially at heavy drawbar loads.

Note, too, the balanced design of the Goodyear tread; *all* lugs are uniform in length and spacing on *both* sides of the tread. There are always FOUR lugs pulling in the ground—a pair on each side of the tire. So you get no "blind spots" to cause slip and excess wear; no uneven contact to cause jerks in the field or rough riding on the road.

Common sense tells you this tread is bound to give more traction, longer wear and smoother riding than a connected-bar tread. And years of farm experience *prove* it.

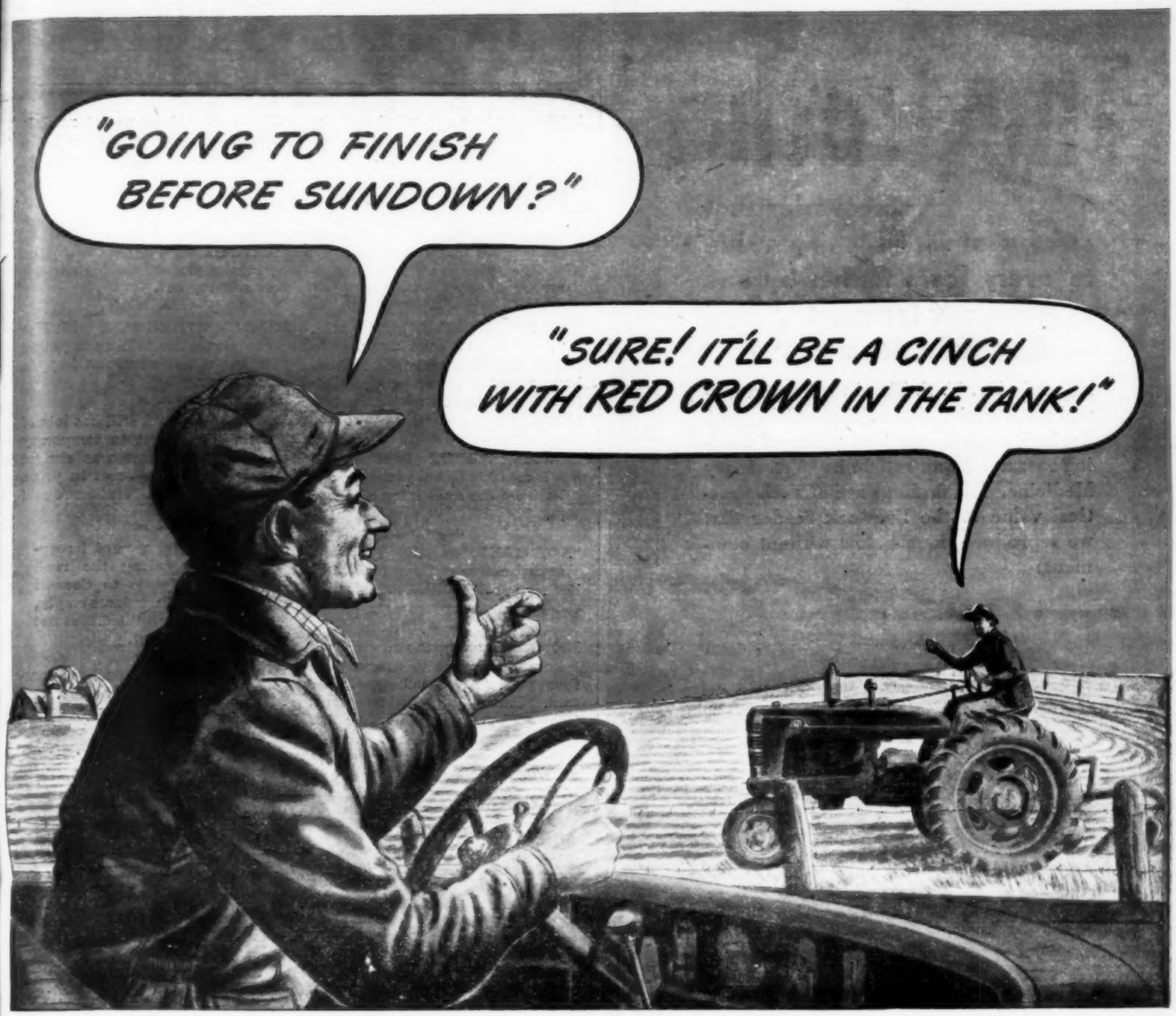
So when replacing worn tires or ordering your new tractor, don't be fooled by claims. Study the tread. Then you'll *know* what you're getting in traction, wear and riding performance.

Sure-Grip—T.M. The Goodyear Tire & Rubber Company

GOODYEAR

Sure-Grip Tractor Tires

TEST-AND-FARM-PROVED O-P-E-N C-E-N-T-E-R TREAD



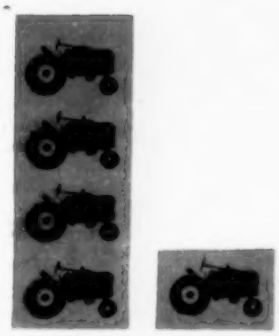
Here's how to hold back the sun!

Seems like you do a full day's work and then some—as if you stopped the sun in the sky to give you more working time—when your tractor's tuned to the minute and your fuel's got what it takes.

Yes, use Standard Red Crown Gasoline—and you'll save time all along the line. You'll get fast starts and quick warm-ups, and you'll get responsive power that takes sudden peak loads in stride... power that helps you breeze right along even when the going gets tough.

So put this power to work for you! Have your Standard Oil Man bring you Red Crown Gasoline.

STANDARD RED CROWN GASOLINE



STANDARD POWER FUEL*
... 4 to 1 choice for 2-fuel tractors

Midwest 2-fuel tractor owners—users of fuel heavier than gasoline—choose Standard Power Fuel by a margin of 4 to 1 over any other brand of volatile distillate. For Standard Power Fuel gives good starting under normal conditions, fast warm-up, smooth idling and full power. It's a real money-saver.

*Standard Power Fuel is sold throughout all the states in which Standard Oil Company (Indiana) markets its products, except in Colorado, Wyoming, and Nebraska.

STANDARD SERVICE

STANDARD OIL COMPANY

Some Common Sense about Livestock Rations

. . . discoveries that can be of far-reaching value to every Iowa farmer by one of America's foremost feeding authorities

Recently Dr. T. S. Hamilton, noted animal nutritionist of the Illinois College of Agriculture, summarized years of feeding research in an article in *Veterinary Medicine. His findings are of such practical value to the livestock feeder that we reproduce them below without comment:

The more of a deficient ration an animal consumes the quicker will the animal show the effects of the deficiency, and the more severe will be the symptoms of the deficiency.

Before any food essential can be used for a specific purpose in the animal body, all other food essentials required for the accomplishment of this specific purpose must also be present.

A ration may be deficient in more than one food essential, but the efficiency with which the ration is utilized is limited by but one factor . . . the ESSENTIAL FARTHEST FROM SATISFYING THE ANIMAL'S REQUIREMENTS. The level of water in a barrel can be raised only after plugging its lowest hole.

For the most efficient utilization of a ration, ALL nutrients necessary to satisfy all the animal's requirements not only must be present, but they must be present in PROPER PROPORTIONS.

In other words . . . BALANCED rations, which contain all the proper proteins, vitamins, minerals, and carbohydrates . . . in PROPER PROPORTIONS, are the only true key to feeding profits.

How do YOUR rations check up?

Use supplements produced by reputable feed manufacturers. They are your assurance that your flocks and herds will receive a ration manufactured in the correct proportions with complete balance and uniformity in all the essential elements.

FEED INSTITUTE OF IOWA

830 Liberty Bldg DES MOINES

INSIDE STUFF

THERE WAS a cold wind outside, but the pigs lay in warm, tight rows by their mothers inside the movable houses. The sun came thru on their fat backs.

▲ ▲

"NO FENDERS?" I asked. "Or have you taken them out?" George Teachout shook his head.

▲ ▲

"WE DON'T USE them," he said. "Too hard to keep clean. We scrape and scour and spray. These houses just have to be clean before a new bunch of pigs comes along."

▲ ▲

"WHAT ABOUT pig losses?" I asked. "Don't you lose a lot from the sows lying on the pigs?"

▲ ▲

"NOT MANY," he said. "I figure a smart, active gilt can look after her pigs pretty well. Not this one, tho——"

▲ ▲

HE WENT along the row of hog houses to point to a sow with four pigs. "Not much good," he said. "Clumsy and bad-tempered. She won't raise any fall pigs. The rest of these will."

▲ ▲

THESE PIGS in Page county, Iowa, never set foot in a barnyard. They'll be hauled soon down to pasture and will spend the summer on an alfalfa and brome mixture.

▲ ▲

IT WAS STILL COLD weather for pigs when I was out in western Iowa. Had been cold for a month. Not a good spring for pigs, but there were some good pigs anyway.

▲ ▲

IN MILLS COUNTY there were some very good examples of contour farming and of terracing. There were also some farms with terrible gullies.

▲ ▲

NEAR COUNCIL BLUFFS a sign says: "Dealer in Used Cars. Established 77 years." He must have been selling used oxcarts then.

▲ ▲

IF YOU WANT to get the feeling of driving on mountain roads in Iowa, try some of the streets in Missouri Valley. The town crawls over a high bluff, and some of the streets stand on end.

▲ ▲

YOU CAN GET the same experience at the other end of Iowa, at Dubuque. And the old stage road from Garnavillo to Clayton used to be steep enough for anybody in the old days.

▲ ▲

UP IN HARRISON county, I drove a mile and a half on up-and-down dirt roads to Clinton O'Neill's place. I was glad the rain hadn't hit here.

"EVERYBODY on a dirt road is watching to see what the legislature does on the road bill," said O'Neill.

▲ ▲

O'NEILL came back from the war in 1919 and began farming. He says it took him 15 years to pay off the high cost of starting out.

▲ ▲

HE AND OTHER MEN with like experience are talking to young veterans about what can happen after a war.

▲ ▲

WESTERN IOWA still has lots of corn, some of it in temporary cribs outside. Some was shelled during the March boost in price, and some shipped. But there's still plenty.

▲ ▲

FEED-YARDS seemed irregularly filled, along the road from Des Moines to Council Bluffs. Some big places empty, some fairly well filled. But not too many in sight.

▲ ▲

HOW LONG have you been married? Not as long as Mr. and Mrs. J. C. Davis, of Wayne county, Iowa, probably. Mr. Davis is one of our older Master Farmers. He and Mrs. Davis were married on April 2, 1891.

▲ ▲

YOU NOTICED that Howard Hill and Donald Bellman have been added to the Master Farmer list. That makes a total of 106 that have been named since we started the program in 1926.

▲ ▲

IN SELECTING Master Farmers, we emphasize community leadership and community service. If a man makes a fortune farming, and doesn't do his community any good, he isn't a Master Farmer.

▲ ▲

THIS IS THE TIME of year when somebody always reports the 300-pound hog that got buried in a straw stack last fall and came out weighing 85 pounds. Pretty hungry, too.

▲ ▲

ON OUR PLACE, we have a hen that got herself locked in a room in the barn, where she spent a week laying egs, eating chaff and getting thirstier and thirstier.

▲ ▲

WHEN WE RAN across her, she staggered back to the chicken house and drank a quart at once. Since then, she hasn't stirred far from the water fountain and the feed. She's had all the wandering she wants.

▲ ▲

IT DOESN'T LOOK as if we'd have sweet corn, peas and new potatoes by the Fourth of July. But an Iowa spring can go fast once it gets started.

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD

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Before Lawrence F. Reis and his hired man, Lester Knauer, Adair county, Iowa, move the sows and their litters out onto the alfalfa pasture, the portable houses are hauled to the barnyard for a thoro scrubbing.

Push Your Early Pigs

Get Them Started Eating Protein and Oats

DON'T you like to watch a litter of new-born pigs fill out and become plump and frisky? Sometimes you can almost see them grow. A pork producer's profits depend on keeping them growing that way.

What do you have to do to keep pigs growing rapidly?

"One thing that is important is to keep the sows milking heavily," says Warren Conner, Carroll county, Iowa, hog breeder. "Sows need some corn, but that produces heat and fat. It's the same as with a dairy cow. Milk for the pigs comes from the oats."

So you can guess he feeds a good balanced ration with plenty of protein supplement and lots of oats.

The pigs at Conner's are started on rolled oats and a little protein. Some middlings are fed in addition if they are available.

"I fix a small creep right in the pen. They'll be eating when they are 10 days old," Conner says.

A short time later, a larger creep is fixed for all of the pigs, and the rolled oats are changed to hulled oats. Cracked corn is added when the pigs are about a month old.

WHAT'S YOURS?

This is the schedule one successful pork producer gives for his spring pigs. How does it line up with yours?

7 days —Erysipelas vaccination.
2 weeks—Move to pasture Divide into lots of 75 to 100 pigs.
4 weeks—Castrate; start pigs on self-feeders.
6 weeks—Cholera vaccination.
8 weeks—Wean.

Oats really are an important feed. Herman L. Dahlke and his son, Harold, Calhoun county, Iowa, had 50 sows start farrowing the middle of March.

"We start them as soon as we can on hulled oats, corn and protein supplement," the senior Dahlke said. "One of our big problems is getting pasture arranged so we don't have too many pigs in a lot."

He thinks 75 pigs is plenty in a bunch. Sometimes, if they are all the same age, 100 or more can be run in one lot when they go to pasture.

What about this business of dividing the pasture so all the pigs have an equal chance at the feed?

H. F. Schroeder, Sac county, Iowa, figures he can take better care of the pigs if they are kept separate.

"We have our spring farrowings in two sections. One in March and one in April. Twenty-five sows farrowed in late March. Then there is a two-week gap and the others start farrowing," Schroeder explains.

Last summer, he had 275 pigs come in 12 days. The top 100 head were sold at five and one-half months, weighing 264 pounds.

He also goes heavy on the oats for the sows and pigs. He uses shelled corn, oats, lots of protein, mineral and salt, plus alfalfa meal, for the sows. After the pasture growth has started, the alfalfa meal is left out.

"I grind the same mixture finer for the pigs," Schroeder said. "Each morning, I sprinkle a little extra supplement on the feed.

"At four weeks, they go on self-feeders. When they are little, I sometimes use bran or middlings for an appetizer in addition to the supplement."

The late bunch of pigs gets the skimmilk from Schroeder's Holsteins. They are kept separate on the pasture. He likes to move the sows to pasture in the afternoon and leave them shut in the houses until the next morning, so they will know which house is "home."

There must be something to this business of plenty of oats and protein for young pigs. But do you have to go so heavy on the protein all summer?

Frank Comp, Madison county, Iowa, grows about 450 hogs a year. About three-fifths of these are spring pigs.

He agrees on the oats. "I like to start the pigs on rolled oats and then, after about a week, I fan some oats, grind them and mix them with the rolled oats, to cut down the expense," Comp says.

And he feeds a good protein supplement, mineral, plus buttermilk. When the weather is cold, all his hogs get warm water and have warm buttermilk over their feed. Heaters keep the water warm in all his hog waterers. When he dilutes the buttermilk, he uses warm water.

As the spring pigs get larger, they will get shelled corn. Usually that is after they are weaned. Comp likes to grind feed and slop the hogs with shelled corn in addition.

"But I don't self-feed protein. After the pigs get up to about 100 pounds, I think a quarter-pound of supplement per day is enough. More than that runs up my feed bill," Comp says. "If I have 200 head of hogs, I give them 50 pounds of supplement every day."

He uses plenty while the pigs are little. But he doesn't weigh it out to them. He feeds them protein in a trough in their creep, and feeds what they will clean up by noon.

That is in addition to good legume pasture.

These men and many others start the pigs with a high protein ration including oats. They want to get rapid, economical growth. Then, as the pigs get up around 100 pounds, they increase the corn, remove most of the oats and lower the protein.

Young growing hogs need protein a lot more than fattening shoats. Do not skimp on it.

Part of fall pigs at Frank Comp's, Madison county, Iowa. Spring pigs go on summer pasture; will be fattened on this concrete floor.

Editorials

Are You Raising More Soybeans?

HOW many acres in corn are you planting this year? And how many acres are you putting into soybeans?

Think about the boxcar shortage and the corn-crib shortage before you decide.

Farmers with extra wheat and extra corn didn't get much benefit out of the March boom in grain prices. Many who wanted to sell couldn't move their grain to market.

The boxcar shortage will still be with us next winter, so far as anybody can tell. Corn may back up on farms because it is hard to market. We'll need a lot of new cribs to take care of a big crop.

Soybeans, within trucking distance of mills, present an easier problem. In many districts, a farmer who grows soybeans can get rid of them fairly soon after harvest.

The beans will be used up and will be out of the way before the 1948 crop comes in. The corn may pile up and cause us trouble by harvest time in 1948.

In actual cash returns, the corn loan looks better than the support price for soybeans. But farmers also need to think about marketing problems, about boxcars and corn cribs, and about the carry-over into 1948.

Farmers are planning a big soybean acreage. Those who figure on a price this fall like the price now will be disappointed. But they may get paid in other ways.

NO PLACE FOR A PUNCTURE

Congress so far has refused to appropriate any funds to pay for next year's school lunch program. Yet some supports may be needed for dairy products next fall.

A hopeful sign is the action taken in the house of representatives to appropriate six million dollars to make up the deficits of the current year. Congressman Cannon, of Missouri, led the school lunch forces.

Dairymen need a continued school lunch program. So do the nation's children.

Same Size Pig Crop Brought $8

EVERYBODY agrees that we don't have enough hogs on the market now. Farmers would feel easier with a lower price. They are worried about a consumer strike, and about a bad drop later on.

Consumers are just plain sore about pork prices. They'd like to see lots more hogs on the market.

Yet we raised in 1946 almost the same number of pigs as in 1940. Here are the comparisons:

Spring pigs saved in 1940..49,584,000
Spring pigs saved in 1946..52,574,000

Fall pigs saved in 1940.....30,282,000
Fall pigs saved in 1946.....30,627,000

There was plenty of pork back in 1940. The price on January 15, 1941, was $8.55 at Chicago. But on January 15, 1947, the price was $22.65.

Plenty of pork in 1941, but not near enough in 1947. Yet we are raising more spring pigs in 1947.

On April 4, 1941, hogs were $8.10 at Chicago. On April 4, 1947, hogs were $26.35 at Chicago.

Plenty of pork in 1941, but not near enough in 1947. But about the same number of fall pigs in both years.

What made the difference? We are exporting more pork than in 1941, but the difference isn't that great. Main reason is this:

Factory pay rolls were almost twice as great in early 1947 as in 1941.

More folks could pay for pork.

If factory pay rolls—and other things—hold up, farmers can afford to raise lots more pigs than in 1946. But if factory pay rolls drop to 1941 levels, hogs could go down to $8 again, even with a pig crop no larger than last year's.

How Many Fall Pigs?

MARKETS are going up and down. Congress is arguing about foreign loans. Farmers wonder what is going to happen next.

But farm people have to act—even tho they aren't sure about the future.

Farmers have to decide whether to plant corn or soybeans. They have to decide how many gilts and sows to hold out for fall litters.

And they can't wait until the markets settle down or until congress makes up its mind.

Right this minute, a big problem is how many fall pigs to plan for.

Some folks are optimistic about hog markets thru 1948. They say congress is going to lend a lot of money abroad, that the war boom will continue, and that lard and pork will sell high.

THAT might happen. But actually congress hasn't yet appropriated much money for foreign relief. Few loans have yet been made. And foreign countries are hard up.

Will this relief demand for food be as great as some people now think?

Farmers can't wait to find out. They have to get those sows and gilts bred if there are to be any fall pigs at all.

Fortunately, a farmer has two chances to guess on the fall pig crop. One is now. The other chance comes in late July or early August.

So Wallaces' Farmer and Iowa Homestead would suggest this: Get as many sows and gilts bred for fall litters as your experience and equipment entitle you to handle.

IF YOU are a good fall pig raiser, and fixed to handle fall pigs, plan on as many litters as you can take care of.

But be ready to change your plans later if you have to. Watch the markets, watch the corn crop and watch congressional action on foreign relief.

If, by late summer, things don't look so good for the hog market in the spring of 1948, sell off some of those bred sows. You'll get good money for them. Hog prices will be strong all summer.

A year ago, Wallaces' Farmer and Iowa Homestead told readers to go strong on fall pigs. Those are the pigs that are being sold now.

Last fall, we told readers to go strong on early spring pigs. That advice is going to pay dividends, too.

NOW we say: Play safe on the fall pig crop. If you know your business, get enough sows and gilts bred to give you a normal crop. But check up again in August. You may want to sell some sows then.

The efficient producer will make money on 1947 fall pigs that are sold in 1948. But that doesn't mean everybody can.

Do We Need Universal Training?

MOST folks who read about the troubles in Europe and Asia probably agree that the United States must have a powerful army and navy until things quiet down.

We don't dare pull out of Europe in a hurry just because we haven't got enough men to keep guard there.

Yet Secretary of State Marshall's requests of congress for adequate funds for the army and navy are handicapped because he includes with them a plea for universal military training.

Universal military training would take about 200,000 men out of the regular army to run training camps in the United States. Its first effect would be to weaken our armed forces.

It is doubtful if the next war will be fought with mass armies, the kind that universal military training helps to prepare. We will probably have smaller and highly trained professional forces.

Air warfare, guided missiles and atomic bombs all indicate that the day of huge masses of land forces may be over.

Plans for universal military training were made before the first atomic bomb fell. Things have changed since.

If We're As Smart As White Rats

IF YOU were a white rat, would you like cream for breakfast? If you were a smart rat, you would.

Dr. Henry C. Sherman, of Columbia University, has been experimenting with white rats and Vitamin A.

He gave one lot of rats the amount of Vitamin A (you can get it in butter, cream or milk) that is ordinarily figured about right for ordinary rations.

Then, to another lot, he gave twice as much. And to a third lot, he gave four times as much.

The lot with the doubled Vitamin A ration lived 10 per cent longer than the first lot. And the lot with the quadrupled Vitamin A ration lived 20 per cent longer than the first lot.

These rats didn't just stay alive. They kept in good health and vigor.

Your stomach acts a lot like a white rat's. Or, at least, food experiments with white rats have worked out much the same way with people.

So there is a big, new argument for eating plenty of Vitamin A. Drink plenty of milk. Flood your cereal with cream. Put plenty of butter on your bread.

Many farm families should double their own milk consumption. They'd live longer and feel better.

Put That Extra Cash In Bonds

INSTEAD of buying blue-sky stock, or bidding up prices of farm land, Iowa farmers, in early 1947, bought more bonds than the year before.

In January, 1947, all Iowa bought 3.84 per cent of the individual bonds sold in the United States. Yet Iowa's income last year was only 1.75 per cent of the national income.

Farmers who buy U. S. Savings Bonds and hang on to them will never regret it. Keep the good work up.

Odds *and* Ends

CORN acreage may be down a little this year, but we'll still get a three-billion bushel crop with ordinary weather.

FARM prices could drop 20 per cent this fall, says the Bureau of Agricultural Economics, but even if they do, they will still be away above pre-war. Twenty per cent off $25 hogs still leaves $20 hogs.

DAIRYMEN have been culling cows the last two years. In 1946, dairymen in the western corn belt culled out 26 per cent of their herds, as against 20 per cent back in 1940.

SUPPORT prices for hogs next fall have not been announced yet, but they may be around $15, Chicago. Not many folks think the price will drop that low in 1947.

SENATOR THYE, of Minnesota, suggests that a joint house-senate committee go into future farm policy. The house committee is scheduled to start, by itself, April 29 on this job.

REAL wages have been dropping since VE Day. In July, 1945, real wages and salaries were 205 per cent of the 1935-39 average, but were only 168 per cent in December, 1946.

WAGE rates per hour have been going up, but overtime has been cut down and living costs have increased.

FARM girls rush to town faster than boys. In 1930-40, the western corn belt had 40.9 per cent of its farm girls between the ages of 20-24 move to town. Only 27 per cent of the boys left.

IF THE first four months of the year have more rain than usual, we aren't likely to run into a summer drouth. So far, Iowa is a little ahead on moisture for most of that period.

"YOU hog and beef cattle men are worrying about when your prices drop," said a dairyman the other day. "Well, we butterfat producers have already taken a cut and lived thru it."

SUGAR rationing ends October 31, according to congress. Watch out for a price rise then. Sugar may be hard to get in November, too.

PRICE declines by the middle of the year in meat, shoes, cotton, clothing, fats and oils are expected by the Department of Commerce. What does Commerce mean by the term "meat"? Pork or beef, or both?

SOME business forecasters say we are about where we were in May, 1920, with a price decline coming on. But they add hastily that the brakes are in lots better shape than in 1920 in case we do start downhill.

"PEOPLE are very much wrought up about the Communist 'bugaboo,' but I am of the opinion that the country is perfectly safe so far as Communism is concerned. We have too many sane people."—President Truman.

WHEN corn belt farmers made repairs and improvements lately on their homes, their favorite repair was to paint. Their favorite improvement was to put in plumbing. So the Department of Agriculture reports.

FARMERS have twice as many tractors as before the war, and twice as much machinery besides tractors. That's why production stays high, even if hired men are still scarce.

FARMERS continue to short-change themselves on library service. Country libraries could help make more books available in the country. The National Grange is asking for a federal library demonstration service which would show farm people what could be done in this field.

SLOW-DOWN in coal mining means less steel production, will hurt industrial welfare generally. John L. Lewis got his strike anyway, in spite of federal action.

CORN crop looks pretty good in Argentina. There may be 200 million bushels for export use.

SCHOOL lunch program this year was paid for in this way: Federal funds, 31 per cent; school children's payments, 54 per cent; state and local governments, 5 per cent; local contributions, 10 per cent.

Song of the Lazy Farmer

MY NEIGHBOR works to beat the band to get each acre of his land in tip-top shape for planting crops, it don't seem like he ever stops; I hear his tractor pounding there each morning 'fore I comb my hair, and after bedtime ev'ry night, he works by artificial light. He says that working night and day is how he makes his farming pay, he claims that if he took his time we might run into stormy clime, and then his spring work would be late and all his crops might meet the fate of getting froze to death next fall, then he would have no cash at all.

I can't see neighbor's arguments, to me they simply don't make sense; of course, a late crop can be froze, but any real farmer knows that early plants may get too wet, and often they are apt to get all chewed up by insects or worms or ruined by some early storms. Besides, poor neighbor will be so worn out when weeds begin to grow, that he won't have the pep to get them killed in his corn field, I'll bet; and so I think I'll wait some more, just like I've done each year before, I'll rest until two weeks from now before I hitch up to my plow.

Pasture Feeding is used by Ralph Knop, of Cass county, Iowa. These cattle were fed during the year 1946.

Grass Puts Fat on Cattle

Save 22 Bushels of Corn Per Acre of Brome-Alfalfa

GRASS will save corn in feeding cattle. Some time is lost in using pasture for fattening cattle, but the gains are cheaper. Cattle that go to market after being fattened on pasture and limited grain feeding will make the grade of "good" or better on the market.

These statements about cattle feeding have been proved in the last few years on farms and at experiment stations. Here is a farm record:

In 1946, a farmer in Otoe county, Nebraska, turned 45 head of cattle on alfalfa and brome pasture on May 12. The steers were good quality and had been well wintered. Here are the feeding results as told by A. H. DeLong, Otoe county agent:

The cattle averaged 805 pounds when they were sprayed with DDT and put on pasture. July 31, they were again sprayed and weighed.

The 45 head gained 114 pounds in the 80 days on pasture. That is a gain of 1.4 pounds a day. Average weight was 919 pounds as the cattle were put on grain feed.

From August 1 to October 17, the cattle were fed ground corn and supplement. They had a final average of 1,045 pounds. The gain during the 78 days of grain feeding was 126 pounds, or 1.6 pounds a day. The selling price was $26.50.

These gains are not unusual. They are about what you could expect on good pasture and short grain feeding.

If you like this method of feeding, you might want to buy cattle as calves in the fall. That's what this Nebraskan did.

The calves were bought November 1, averaging 433 pounds. In the 193 days from November 1 to pasturing season, May 12, the calves got alfalfa hay and 12 pounds of ear corn and oats each per day. Gain was 372 pounds, or 1.9 pounds a day.

Dry-lot feeding and two methods of pasture feeding were compared in 1946 at the Page county, Iowa, experimental farm.

Check lot (No. 1) averaged 726 pounds on May 2, when dry-lot feeding began. It took 159 days to make the cattle grade low "choice" (a little better than "good").

They gained 318 pounds, or two pounds per day. It required 43 bushels of corn, 157 pounds of supplement and 845 pounds of hay per steer to do the job.

Another group of steers (No. 2) was self-fed corn on pasture part of the time. The 193 days required to make the cattle low choice in grade was divided as follows: Pasture alone, 55 days; self-fed corn on pasture, 81 days; dry lot, 57 days.

Total gain in 193 days was 377 pounds, or 1.95 pounds per day. Corn eaten was 39 bushels per head, supplement 54 pounds and hay 224 pounds. This method saved about five bushels of corn per head and about two-thirds of the protein feed and hay, compared with dry-lot feeding.

The No. 3 lot of steers was pastured 136 days and then fed in dry lot for 93 days. It required 229 days to finish the cattle to a low choice grade.

Total gain on Lot 3 was 371 pounds in 229 days, or 1.62 pounds per day. Steers ate 25 bushels of corn each, 87 pounds of supplement and 481 pounds of hay. This feeding method, compared with dry-lot feeding, saved 18 bushels of corn per head and about half the supplement and hay.

In the above test, the beginning weight of each lot didn't vary over four pounds. Quality of each lot was as nearly even as the eye could make it. The cattle were fed to low choice grade no matter how many days were required.

Here are the conclusions reached by two soil conservation men and one Iowa State College cattle specialist. Maurice L. Peterson, G. M. Browning and Rex Beresford report the one-year experiment.

"Cattle handled on pasture were fattened with from five to about 20 bushels less corn per head, and considerably less protein and hay than cattle that were fattened in dry lot."

"One acre of brome grass-alfalfa pasture saved 10 to 22 bushels of corn and cut hay and protein needs in half."

Feeders will notice from this experiment that pasture feeding requires more time to bring cattle to the same condition of fatness. And, the more you use grass, the longer the feeding period must be.

You save about five bushels of corn per steer if you begin to feed grain to cattle on grass before July 1, according to this experiment. You save 13 bushels per steer if you don't put cattle on full grain feed until the latter part of August. This is compared with dry-lot feeding.

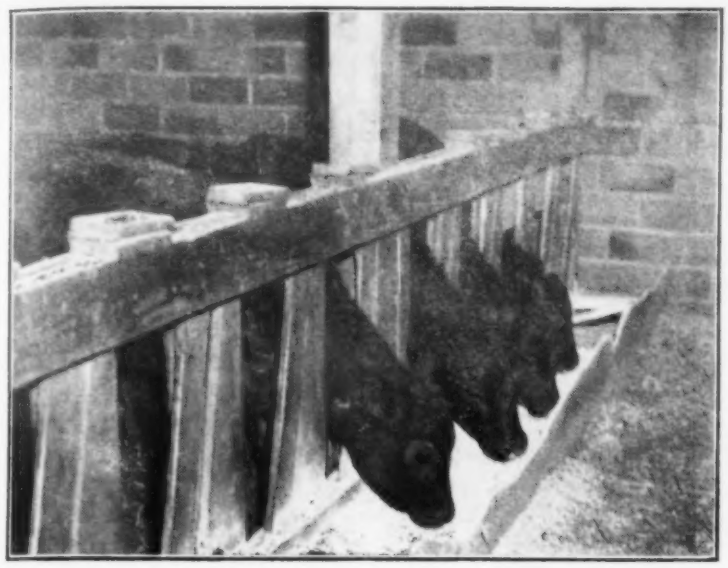
For the five bushels of corn saved, you lose 34 days in getting the cattle to market. But the gain is 59 pounds more and some supplement and hay is saved.

For the 13 bushels of corn saved by the shorter grain feed, you lose 70 days in getting the cattle fat. But you get 53 pounds extra gain on the cattle and save some protein and hay.

For this year, farmers might want to consider this time element carefully. The cattle on hand are high priced.

In planning a long-time feeding program, feeders may want to consider the two things that grass will do in feeding cattle: (1) The gains will be cheapened; (2) the cattle will make your grass bring cash returns.

Short, Thick nose and lots of breadth between the eyes are indications of good quality in feeding calves. That is the kind you should get to feed on grass.



Stanchions are a big help in keeping the feed trough clean. Art Brinkmeyer, Hardin county, Iowa, is raising the calves shown in the picture. He and his son Sam milk a herd of Brown Swiss.

Boys Are twins, but the calves are not. While faithful "Shep" watches, Donald and Ronald Russell, who help with the work on their parents' farm in Polk county, Iowa, tend to calf-feeding.

Dairymen Raise Replacements

It Takes Healthy, Well-Grown Heifers To Build Up High-Producing Herd of Cows

EXPERIENCED dairymen say that it's smart to raise your own calves for replacements in your herd. Healthy, growthy heifers make the best cows. The care and growth of calves in the herd is important to future production.

At 24 months of age, heifers have acquired about 80 per cent of their mature growth. Naturally, that makes it expensive to stunt the heifers.

Good calves, of course, begin with the dry cow. A rest period of a month to six weeks is important. Feed good quality legume hay, a light grain mixture and possibly some Vitamin A or codliver oil if you have been having calf trouble.

The first few weeks in a calf's life are the critical ones. A newborn calf hasn't much resistance to disease. Sanitation is very important.

Calves should be kept in dry, draft-free pens. They should be fed from sanitary buckets. Avoid overfeeding. Keep them on the hungry side.

Overfeeding, dirty feeding pails, feeding at irregular hours, allowing the calves to chill, or making sudden changes in feed, all can cause scours.

Infectious (white) scours are not as common but are more dangerous than common scours. Once they hit your herd, better get the veterinarian on the job with the newly developed drugs and treatments.

Walter Mannetter, of Hardin county, Iowa, uses raw eggs to check common scours. Cut the milk given down to about one-half. You can break the egg in the calf's mouth or give it in the milk. It supplies Vitamin A and helps make up for the reduced milk.

Keeping the pen dry and clean is an important item. Some dairymen, such as J. B. Henning and W. F. Dreier, of Hardin county, Iowa, find that it pays to add plenty of fresh bedding each day, and not clean the pens too often. It's a difficult matter to keep dry bedding next to the floor.

You can also easily run into trouble when you change from whole milk to skim-milk. Art Granzow, of Hardin county, Iowa, lets his purebred Guernsey calves nurse for three days. Then he starts them on whole milk diluted with water, giving them three pounds at each feeding.

He cuts the whole milk to prevent scouring from too rich a feed. And he changes from whole milk to skim-milk gradually.

Calves will usually start eating grain if it is left in a feed box where they can get it. Along with the grain, make sure they have plenty of clean, fresh water and some bright hay.

"Sometimes a taste of calf supplement helps get the calves to eating grain," Granzow says.

Pasture alone isn't enough for the calves the first summer. They need a lot for sunshine and exercise, but should be fed good legume hay and grain. Go easy on corn and feed more oats. If you want to sell all your milk, use more calf supplement.

For 25 years, J. N. Martin, of Hardin county, Iowa, has had a purebred Jersey herd. During 11 of those years, he has made better than a 500-pound average.

"I don't know about some of the cows I have bought," he says. "But I always tell the young fellows I never raised a heifer calf or bought a heifer that didn't produce a profit."

It pays to take good care of the dairy heifers.

This New calf had his navel clipped and painted with iodine at birth. J. B. Henning and W. H. Dreier, Hardin county, Iowa, say this removes chance for infection in their purebred Holsteins.

Don't Expect calves to make enough growth on pasture alone. These purebred Guernseys at Art Granzow's, Hardin county, Iowa, get hay and grain and have this small lot for exercise.

Donald Miller, Freeborn county, Minnesota, showed grand champion pen at the Minnesota Spring Barrow Show. His Chester Whites, averaging 270 pounds, reached the open class by defeating pen shown by Wendell Meyer, Franklin county, Iowa, in the junior show. Donald is 19 years old and the son of George W. Miller.

Wendell Meyer Franklin county, Iowa, 4-H boy, won grand championship in individual barrow class at Minnesota Spring Barrow Show. Wendell is 17, and the son of Kasper Meyer. He had stiff competition from Eldon Dougherty, of Renville county, Minnesota. A fifth judge had to be chosen to pick junior champion.

Boys Top Adults in Barrow Show

Club Members Sweep the Open Classes in Minnesota Event

BOYS under 20 years old can go into the show-ring with barrows they have raised themselves and do all right in competition with adult hog raisers. That appeared to be proved at the Minnesota Spring Barrow Show, at Albert Lea, March 28 and 29.

Donald Miller, 19, of Freeborn county, Minnesota, showed the three Chester White barrows that won first place in the junior show-ring. Then he won grand championship honors over all. Edward Forest, of Linn county, Iowa, was awarded reserve championship on a pen of Polands.

An Iowa boy repeated in the individual class. Wendell Meyer had the top barrow in the junior show. Then his Poland won grand championship ribbon in the open show. Lloyd Hanson, Steele county, Minnesota, had the reserve champion individual barrow.

The barrows were judged two ways. One was the usual show-ring method. The winners, Miller and Meyer, were qualified to enter the barrow show for grand championship honors, which they did, and won.

The other method of judging was by a score card. Type, conformation and finish were given 50 points; rate of gain after weaning got 30 points; and 10 points each were given for the boys' feed record and story.

The results from this method of scoring seem to indicate that the best show-ring barrows don't always make the best score in the feed-lot. There was a new group of winners from the score card judging.

Carole Hanson, Freeborn county, Minnesota, was awarded top place with a score of 99.8. James Myers, of Swift county, Minnesota, was given reserve championship honors with a score of 98.9.

Donald Miller, who won against both juniors and adults on show-ring standards, placed 30th on the card with a score of 86.1. Wendell Meyer placed 20th, with a score of 89.4. Barrows in the adult show were not scored.

Over 5,000 people who attended the barrow show divided their time between the hog show, a labor-saving show for farm and home brought to Albert Lea by the Minnesota extension service, and a hog producers' institute or forum.

Keeping hogs from diseases and parasites in old yards was stressed by those in the forum discussion. The subject was "Efficiency in Year-Around Hog Production."

About half the hog men favored raising hogs entirely on cement as a method of keeping away from infection. Others favored the clean ground system. There was some disagreement as to which is the most work in raising hogs.

At Left smiles and a handclasp came as Wendell Meyer was announced as owner of the grand champion at the Minnesota barrow show. D. W. Zaeger, who is teacher of vocational agriculture at Hampton, Iowa, congratulates the Franklin county, Iowa, 4-H member. Wendell is 17 years old.

Below are judges at Minnesota barrow show. From left: A. L. Anderson and E. L. Quaife, I. S. C.; C. R. Adams, Wilson & Co., Albert Lea, Minn.; H. G. Zavoral, University of Minnesota. A fifth judge, Allen Nash, of Cedar Rapids, Iowa, broke the tie in the junior individual barrow class.

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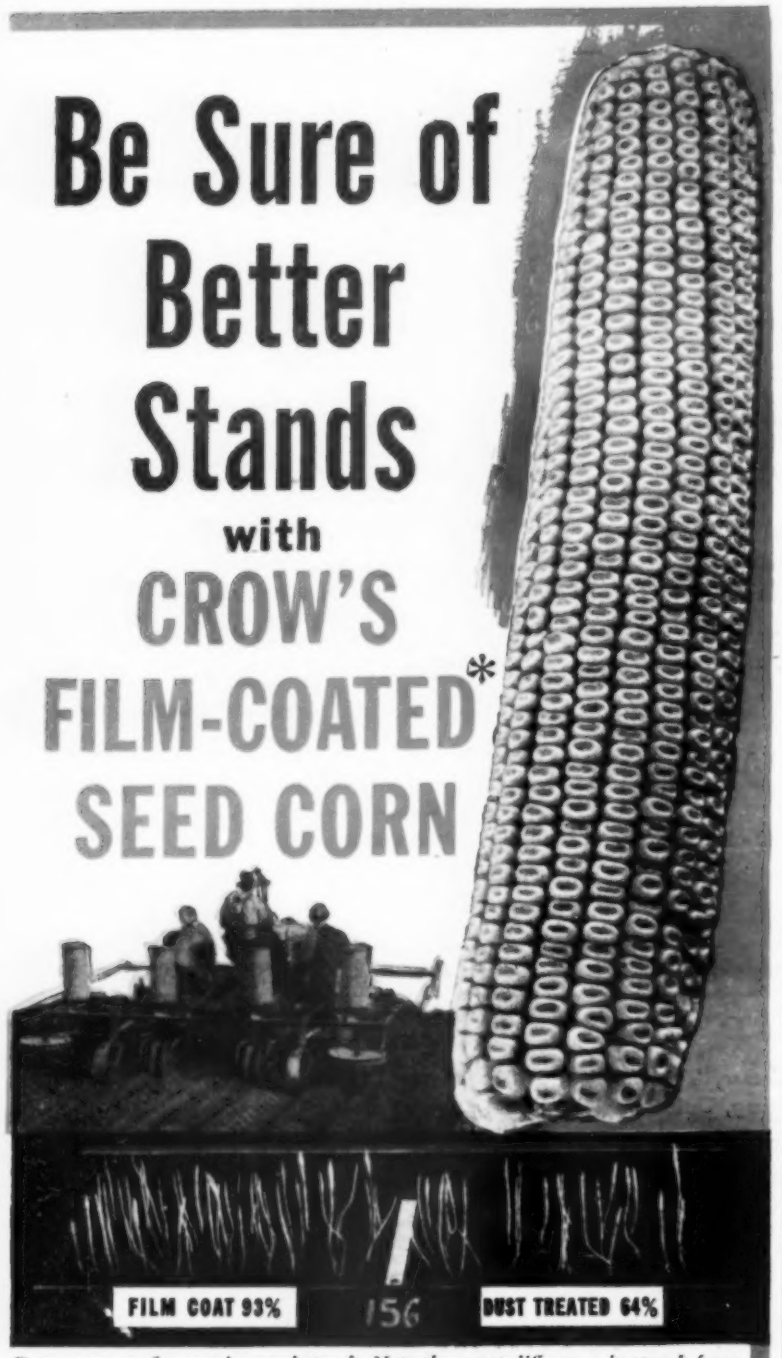

Extra corn profits require good stands. Note the great difference in stands from seed corn planted on each side of this tray. The seed was the same except for treatment. After 14 days "Cold Test," Film-Coated seed had 93% germination while seed that was dust treated grew only 64%.

CROW'S 607
SINGLE CROSS
THE EXTRA PROFIT CORN

You can't regulate the weather, but you *CAN* depend on Crow's Film-Coated seed corn in cold, wet soil—AT NO EXTRA COST. It is protected with Film-Coating. Practical tests show high germination after many days unfavorable growing conditions. Further conclusive tests indicate that the average yield per acre should be increased at least 10% when Crow's Film-Coated seed is used. This means more DOLLARS in your pocket! See Crow's dealer in your community. Mail postal or coupon for Crow's EARLY ORDER Offer on Film-Coated seed corn for 1948 planting.

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Send complete information on how I can SAVE money *NOW* by ordering Crow's 1948 Film-Coated seed corn.
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SEND FOR 1948 EARLY ORDER OFFER

Spreading Lime on a Warren county, Iowa, farm. Some like to spread lime on corn land the year before seeding to oats and legumes. The lime gets well mixed with the soil this way.

Farmers Strike Over Milk Price Cut

Ottumwa Dairymen Win Fight to Have Something to Say About Marketing

HOW will farmers react when they start getting squeezed hard between skidding prices and high costs?

Dairymen living around Ottumwa, Iowa, gave one answer this month. When milk bottlers cut the whole milk price by 45 cents a hundredweight, farmers reacted just like city workers do under similar conditions. They kept their milk at home.

The Ottumwa "strike" lasted just four days. Then dairymen got the main thing they wanted: Recognition of their association as the bargaining agent for producers. They also got back a dime of the price cut.

The Ottumwa Milk Producers Cooperative—it's really not a co-op, just an association—was organized in 1939. But it wasn't recognized by the processors, who preferred to deal with dairymen as individuals.

During the war, there wasn't much to talk about anyway. Prices were under government controls. Demand was high. And all milk was bought on the same basis, whether it went into bottles or into butter or other manufactured products.

But when price controls went out the window last summer, the bottlers took over full control of prices. Without talking it over with dairymen, they raised the whole milk price by 45 cents per hundred.

A few members of the producers association were concerned. They thought the boost might be too much, and wanted to talk about it. But processors weren't in a bargaining mood.

Then, late in February, Ottumwa dairies apparently began to think about the flush milk period ahead. So they cut the price by 45 cents, again without talking to the producers. The retail price was dropped a cent a quart—but only on pasteurized milk.

That put the March price at $3.95 a hundredweight for 4 per cent milk, delivered at the dairy. The dairymen, watching the processors fight for milk, didn't put much stock in the argument about fear of surpluses.

Besides, cream prices were good. Feed costs were going up and skim-milk was worth good money as feed for spring pigs. And farmers still wanted something to say about price.

The producers association came to life. President Charles Stiles and other officers tried to talk to the bottlers, without result. So they called meetings at which most members signed agreements to cooperate with the association.

Then they announced that no more milk would go to Ottumwa until processors talked business.

About 95 per cent of the dairymen went along with the plan. There was no violence. The association supplied enough milk to take care of hospitals and infants.

Very few farmers delivered any milk. Those who did were visited peacefully by association members and asked to keep milk at home. Nothing happened if they didn't.

What to do with the milk was no problem. Most producers had separators, or their neighbors did. Two separators were set up in one cream station—farmers brought in their whole milk, took cream checks and skim-milk home.

Meanwhile, directors of the producers association—headed by Stiles and Secretary-Treasurer George Burnstedt—tried to talk processors into talking. But the dairies were still shy.

Then consumers got interested. Local CIO and AFL union leaders—plus Lee Simon, Des Moines farm-labor relations director for the Packinghouse Workers, and the Rev. J. M. Telfer, Ottumwa minister—finally talked processors into sitting down with producers.

Once that was done, Stiles, a former union member himself, had better luck. He and his directors were able to convince processors that dealing with dairymen as a group wouldn't be so bad after all.

The April price was set at $4.05 a hundred for 4 per cent milk, delivered. And processors agreed to talk over future price and surplus problems with producers.

Your Farm is a Factory . . .

and the *Quonset** 40

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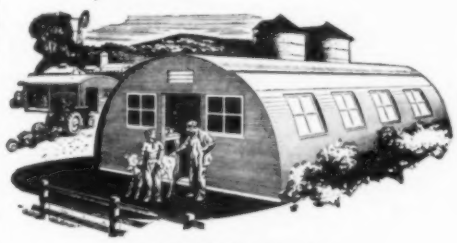
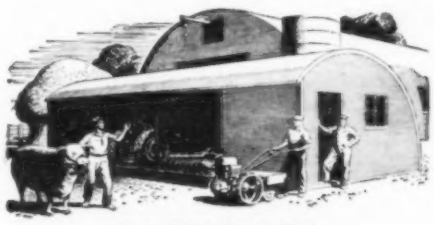
Perhaps you may need these other Production Tools!



QUONSET 20

20' wide; length as desired, in 12' sections. Walk door, two windows and ventilating louvers in end walls. Extra windows in side walls if needed.



QUONSET 24

24' wide; length as desired, in 12' sections. Each section on flat side can be equipped with big roller door, solid panel or open front. Very adaptable.

*REG. U. S. PAT. OFF.

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The simplicity of Stran-Steel construction makes the Quonset 40 easily adaptable to many uses. Extra windows and doors can be provided. Insulation can be applied economically and efficiently. Partitions can be added. And when more space is required, the Quonset 40 can be extended by adding 20-foot sections.

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MRS. K. C. BATCHELDER, Route 4, Faribault, Minnesota, has been using Vel for 3 years for washing dairy utensils and for dishes, stockings, and fine fabrics. The Batchelders milk 25 cows on the 200-acre farm their family has owned for 3 generations.

• *Vel . . . a wetting agent recommended by agricultural schools*

Agricultural schools recommend wetting agents for cleaning dairy equipment. In test after test, cleaning with a wetting agent has left dairy equipment with a lower bacteria count than any other widely used method.

• *Cream and milk production improved*

Vel helps you make money by improving cream and milk production through reduced bacteria counts. Keeps equipment cleaner, free from milkstone; helps reduce repairs.

• *Vel cuts through milk fat . . . eliminates milkstone and fatty slime*

Milkstone cannot form in separators, milking machines, or other dairy equipment; and milkstone already present is gradually dissolved when you clean with Vel. Vel cuts through milk fat and milk slime in a jiffy . . . cuts brushing and scouring 'way down.

QUICKER . . . EASIER . . . VEL CLEANS SEPARATORS IN 2 MINUTES!

HOW TO CLEAN SEPARATORS WITH VEL

1. Rinse supply tank with a cup of warm water. Shut off faucet. **2.** Add pint of warm water or skim milk directly over float to clear cream from machine. **3.** Place a tablespoonful of Vel in supply tank. Pour in a 10-quart pail of warm water (120°F.) and let this run through separator. Brush tank inside and out with a soft brush . . . also outside of spouts. **4.** Pour water which has come through machine into a dishpan. **5.** Dismantle machine. Supply tank, spouts, float and inlet seldom need further cleaning. Place parts in supply tank. **6.** Discs will usually be perfectly clean. Set them in dishpan and run brush down the hole several times. Shake discs apart for inspection; then place in supply can. **7.** The slime on the rest of the bowl parts can easily be washed off with the brush, without scouring. **8.** Pour boiling water over parts in supply can, drain and allow to dry.

Vel cuts dishwashing time in half

Dishes and glassware gleam without wiping. No soap scum or streaky film to polish away. No dishpan ring! Vel cuts grease faster than soap. Cleans dishes cleaner than soap and cuts dishwashing time in half! Milder to hands than soap because, unlike soap, Vel contains no alkali.

*VEL is the trade-mark of the Colgate-Palmolive-Peet Co.

Doubling pig production, says James Thompson, of Boone county, Iowa. He is shown repairing a hog house roof. But Iowa farmers, as a whole, are trying for only 15 per cent more spring pigs.

More Early Pigs This Year

Iowa Farmers Say 15 Per Cent More Sows Are Farrowing This Spring Than a Year Ago

★ A WALLACE-HOMESTEAD POLL ★

WITH hogs high and the feeding ratio profitable, you'd expect farmers to raise more hogs.

That's just what they're doing. But not too many.

Last December, Iowa farmers said they expected to have 9 per cent more sows farrow in the spring of 1947 than had farrowed in 1946. That was the report of the Bureau of Agricultural Economics.

But higher hog prices caused some folks to save more sows. Or so we guessed.

So last month, Wallaces' Farmer and Iowa Homestead took a survey to find out if any farmers had changed their minds since December.

Some had. Now it looks as if farmers would have 15 per cent more sows farrow than a year ago.

When is the peak of the farrowing season in Iowa? April brings the most pigs.

Last year, according to the Iowa Cooperative Crop and Livestock Marketing Reporting Service, the distribution of farrowings from February thru June was as follows:

February	2 per cent
March	22 per cent
April	47 per cent
May	23 per cent
June	6 per cent

This year, there were more sows farrowing before April than a year ago. And a few more to farrow in April, May and June.

But, of the 15 per cent increase, about two-thirds of the gain seems to be coming in early pigs. Most of them came in March.

Farmers whose pigs came before April 1 have a fine chance to hit a very high market. Everybody agrees that the hog market thru September will be extra good.

Most folks will guess with you that October will be a good month, too. After that, there is more question, but some estimates are that the usual seasonal break may be delayed until later than usual.

Tenants seem a little more anxious to raise hogs this year than do owners. Young farmers are increasing a little more than elder ones.

Most conservative folks are farmers in the ages 30 thru 49. They are increasing production less than 10 per cent.

In all groups, owners and tenants, old and young, the big increase is coming in sows for early farrowing.

What this means in actual pigs is yet to be seen. Last year, Iowa saved 6.6 pigs per sow. This is a better record than usual.

This year, the average per litter may be down a bit. Even if Iowa gets a 15 per cent increase in sows, if the number per litter is down to the 10-year average, the increase in the pig crop would be only 10 per cent over last year.

Last fall, hogs went up to $23.75 in Chicago in October, edged a little higher in November, and came back to $21 in late December.

Will a 10 per cent increase in the number of Iowa hogs—which may mean an 8 per cent increase in the nation — bring the price down very much next fall?

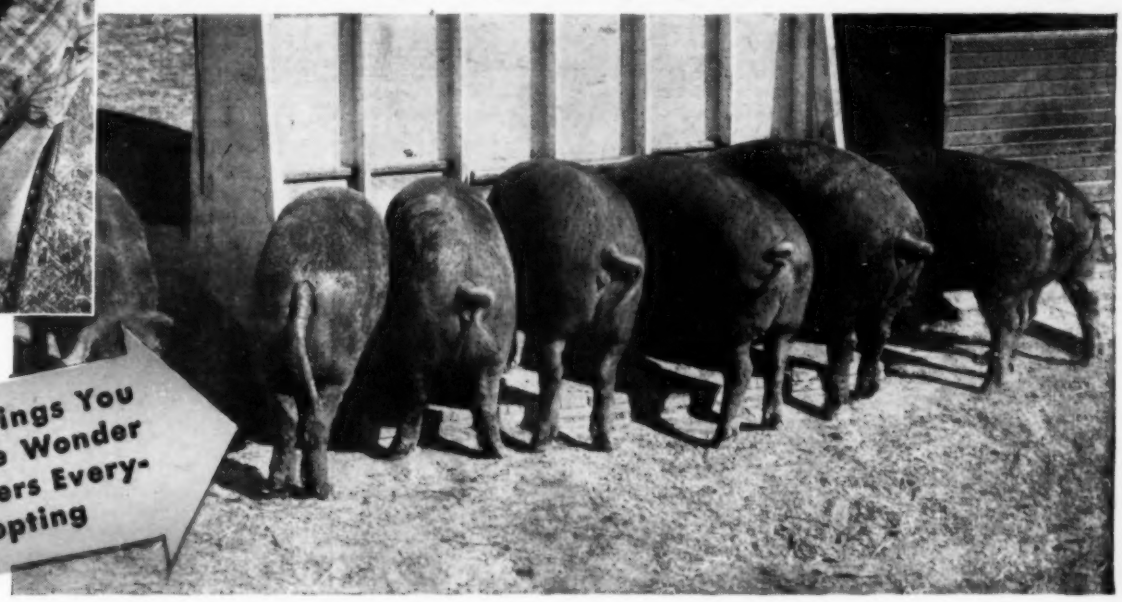
The answer to this turns upon the rate of industrial production and the amount of pay rolls. Exports of lard will have some effect, too, on the price of lard and of heavy hogs.

If there is a drop of 10 per cent in industrial pay rolls next fall, hog prices might be sent down. But the support level guaranteed under the Steagall amentment is somewhere around $14 per hundred, and most estimates are that the price of hogs will not fall that far even after the break comes.

Worming of Pigs Now Revolutionized by Use of Sodium Fluoride as Recommended by U. S. Department of Agriculture Scientists

THE OLD WAY
It used to take two men and then was only partly effective

THE NEW WAY
Now! No Starving—No Catching—No Drenching



Moorman Patent Brings You the Sodium Fluoride Wonder Wormer That Farmers Everywhere are Adopting

Knock Out Large Roundworms New Easy Way

Worm a whole litter with less time and work than it used to take to worm one pig—simply feed new worm expeller and see large roundworms expelled

Greatest boon to hog raisers in years is the development of a remarkably easy way to rid pigs of large roundworms.

This new treatment turns into an easy feeding job the old 2-man chore of starving the pigs, catching and struggling with them, getting them excited, and drenching them.

Moreover, with this new method hogs usually continue to gain while on treatment instead of suffering the terrific weight loss of older methods.

The new way is to worm with sodium fluoride. Editors, extension men, and scientists of the U. S. Department of Agriculture are urging its use.

Don't continue with the old wasteful hard-work way. Get the new patented wormer containing sodium fluoride. It was developed in the MoorMan Laboratories at Quincy and has been proved on over 16 million pigs.

Ask your MoorMan Man for it or write Moorman Mfg. Co., Quincy, Illinois—in business since 1885. World's leading manufacturer of Mineral Supplements and Protein Concentrates.

MoorMan's Easy-Way WORM EXPELLER

Contains sodium fluoride and other valuable worm expelling aids ready mixed with feed—no grinding, no mixing—nothing to do but open the bag and feed it according to directions. 100 lbs. treats 33 pigs under 50 lbs.—more required for heavier hogs. Send coupon for prices and additional information.

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☐ Check here if interested in good paying job as MoorMan trained salesman.

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For 35 years Case tractors have kept up their record for fuel economy, not merely when new, but year after year in practical farm work. Meanwhile they have earned a reputation for still greater economies—low annual upkeep, and long life that means low cost per year of ownership. That's low total power cost—the kind of tractor economy needed to see you through the long pull ahead.

Measured by the cost of labor that builds them, the labor they save on the farm, and the value of crops they produce, Case tractors today are far lower in cost than they were 35 years ago, or even so recently as the last pre-war years. To keep your present Case tractor in tip-top shape, or to make plans for a new one, see your Case dealer.

Farm Hauling Goes Faster with a Case Farm Truck. Ask your dealer or send for folder showing how it has both low loading and high clearance; how its auto-type steering lifts box a little for still shorter turns; how steering parts are protected behind axle. Tires, wheels, roller bearings, and chassis lubrication all are of auto-type for fast travel and long life. Write to J. I. Case Co., Dept. D-80, Racine, Wis.

CASE

SERVING AGRICULTURE SINCE 1842

Workday Pointers

Helpful Suggestions For Farmers

CLODS IN FIELDS lock up soil fertility until they're broken up.

▲ ▲ ▲

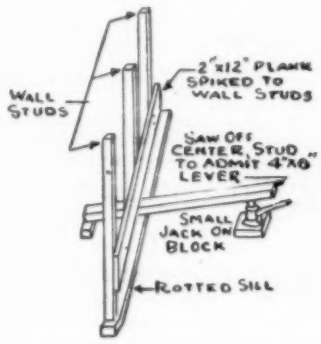
SPRING-TOOTH harrows used in dry spells of weather will control quack grass.

▲ ▲ ▲

WET LAND will usually produce beans better than corn. Some say that beans will also stand dry weather better than corn.

▲ ▲ ▲

HERE'S A WAY to lift and hold up barn or hog house walls while rotted sills are replaced. Spike a 2x12 to wall studs. Then use a short, strong piece as a lever, as shown in the illustration. Put a jack under the outer end of the



lever. Lift enough so the old sill can be removed. More than one jack would be needed for a heavy barn wall. But the same principle could be used even if house-lifting jacks were required.

▲ ▲ ▲

ALKALI SPOTS, sometimes called high-lime areas, can be helped to produce a corn crop by (1) better drainage, (2) more organic matter in the soil, (3) manure or fertilizers high in potash.

▲ ▲ ▲

ELECTRIC FENCE posts should lean sharply toward the open side where you can drive along the fence. Then you can use the mower to keep weeds from shorting the current.

▲ ▲ ▲

PLOW CORN LAND first, bean land second, is a pretty good rule in deciding which field to work first. But fields that are inclined to be wet or cloddy should be plowed early if possible.

▲ ▲ ▲

COST OF GROWING corn and soybeans can be figured out pretty closely for comparison. But comparing gross income per acre from these crops is more difficult. Yields and prices tell that.

▲ ▲ ▲

FALL GILTS have advantages for raising fall pigs. Keeping fall gilts permits you to sell big old sows. You can also select breeding time for fall pigs without interference from a litter not weaned yet. The fall gilts can then be kept over for next spring pigs.

▲ ▲ ▲

PAINT REQUIRED for new work can be estimated at one gallon for each 400 or 500 square feet of surface. Repainting old buildings will require a little less paint per square foot unless painting has been neglected too long. Where old work has scaled or chalked off badly, and paint is almost gone, much more will be required.

SPARE PARTS for the tractor that should be kept on the farm include spark plugs, fan belt, radiator hose coupling, fuel pipe line from tank to carburetor.

▲ ▲ ▲

TRASH COVERAGE is better if the plows have jointers of either the blade or disk variety. The blade jointer is used in conjunction with the rolling coulter; disk jointers replace coulters.

▲ ▲ ▲

FEED IS GROUND thoroly by chickens, says A. G. Hogan, of the University of Missouri, and there is no difference whether the grain is whole or ground. But it's hard to get chickens to eat enough protein if they get all the whole grain they want.

▲ ▲ ▲

ONLY VERY HIGH producing cows should be milked before freshening. The only reasons for doing it at all are to prevent milk fever and injury by the bag getting too tight, says Dwight Espe, Iowa State College dairy specialist. Pre-milking robs the calf of the colostrum, or first milk, which the calf needs for a proper start.

▲ ▲ ▲

TEN BOLTS of lightning may strike each square mile in the United States this year. About the safest place in a thunderstorm is a metal building or right under a transmission line. The most dangerous place is under a tree or standing in the open door of an old barn. Any place where static electricity is grounded is safe, says Richard W. Kendall, of the Oklahoma A. and M. College.

▲ ▲ ▲

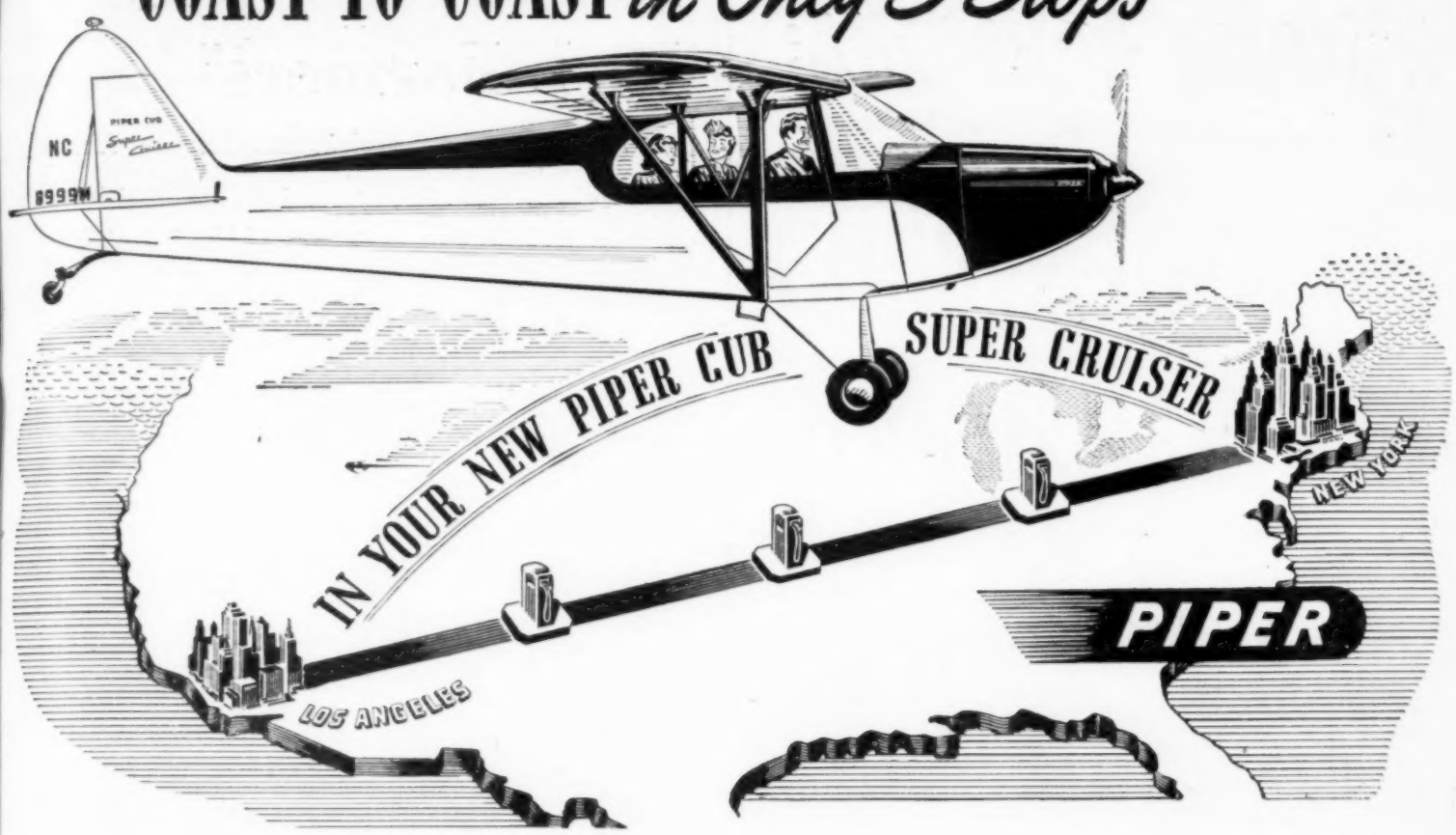
STARTING FIRES with kerosene has sent men, women and children screaming in terror, with clothes ablaze. Is there a safe way to start fires? H. E. Boeding, of Lee county, Iowa, gives this method: Keep a corn cob in a can

of kerosene. Light the kerosene-soaked cob before putting it in the stove. Then put another cob to soak. But any method is no safer than the one who uses it. If you get in a hurry and throw the kerosene-soaked cob in the stove before the kerosene is ablaze, an explosion might result.

▲ ▲ ▲

MOVING DRIES CORN. It breaks up the tightly settled spots. Air movement thru the corn will be much better for a while in a new crib. Moving the corn also gives you a chance to get trash out of the corn and to install ventilators.

COAST-TO-COAST *in Only 3 Stops*



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Evans Air Service

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Glen Niederhauser
Niederhauser Airways

HARLAN, IA.
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Municipal Airport

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Ida Grove Flying Service
Sacquety Field

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Washington Wire

"Don't Help Those Rich Farmers"

Consumers Complain and Congress Hesitates To Provide Money for Agricultural Programs

WASHINGTON, D. C.—Farmers are making a lot of money. If you don't believe it, ask a congressman from a city district.

His constituents are paying high prices for almost any kind of food. And they don't have very much sympathy for legislation to help agriculture.

Farmers are doing all right now, they say. Why appropriate money for anything connected with agriculture?

That's what farm organization leaders are up against as they try to talk to congress about farm bills.

Some have about decided it will pay not to ask for much this year, but to try to get congress to provide for help when farm prices begin to slump.

Concern over the future was expressed by Senator Capper, Kansas Republican and chairman of the senate committee on agriculture. He said:

"We are financing such a large portion of our exports of goods and commodities that the increase in dollars and shortages of goods is breeding a dangerous inflation.

"That is a real danger signal for agriculture, which in the past has suffered most from inflation followed by deflation."

For a few minutes, farmers are out of the dog-house. They were being hammered hard on account of high food prices.

Now public indignation is being turned against the new coal strike (John L. Lewis' "memorial" for dead Centralia miners) and against the phone workers.

Food prices are still high. Consumers still feel that farmers are rolling in wealth. But coal and telephones have taken farm product prices off the front pages of newspapers.

But congress, in working on farm legislation, has to reckon with the fact that many consumers think nothing at all needs to be done for agriculture.

Chairman Hope and his house committee on agriculture will open hearings soon to discuss what lines a permanent farm program should take.

Secretary of Agriculture Anderson will be the first witness.

The question in the minds of farm leaders—and politicians—is:

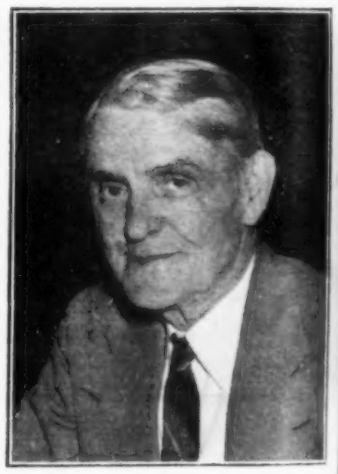
"Will Anderson ask a return to production control in order to prevent price-depressing surpluses? Or will he urge measures to maintain domestic consumption and exports at high levels, even at the cost of government subsidies?"

In other words, will he say the AAA crop adjustment system is the answer? Or will he urge a broad school lunch program, a food stamp plan, or subsidized exports?

Or will Anderson advocate the compensatory payment plan? Under this plan, market prices would be allowed to drop, with the government making up the difference between market price and the guaranteed support price.

Chairman Clifford Hope apparently leans toward recommending abundant farm production. He would then find some way to get the products consumed.

Prices of eggs will be supported at an average of 35 cents a dozen



Capper of Kansas sees "dangerous inflation" and trouble for farmers when boom breaks.

during the month of May. This is a 2-cent increase over the April support price.

Eastern consumer groups are objecting. They say government purchase of dried and frozen eggs is preventing shell eggs from going into storage.

They say this may make egg prices too high next fall.

The Department of Agriculture is working to prevent the spread of a serious louse infestation of cattle that has showed up down in Florida.

The lice get in the brush of the tails of the animals. The Florida cattle men call them "tail lice."

This pest is worse than ordinary lice. Cattle become weak. Some are so feeble they can't walk.

Nobody knows how to cure the trouble yet. But the department is trying out various sprays.

Farmers will sell a record 800 million bushels of corn from last year's crop, says the agriculture department. More than one-third of it is coming from the north-central region.

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This newest Chevrolet is even bigger-looking, even better-looking. . . . It gives Big-Car performance, Big-Car comfort, Big-Car dependability. . . . And it alone offers you this Big-Car quality at lowest prices, together with substantial savings in gas, oil and upkeep!

For dependable, day-after-day service around the farm—or for those occasional trips away from home—there's nothing like this *newest Chevrolet*, bringing you the new high standard of BIG-CAR QUALITY AT LOWEST COST!

You'll notice at once that this new Chevrolet for 1947 is even *bigger-looking*, even *better-looking*, even more beautiful and desirable in every way, than any Chevrolet of the past. Moreover, you'll find it offers the finest combination of *all good things, including economy*, of any car in its price range.

It alone brings you the Big-Car styling of a Body by Fisher . . . the Big-Car performance and dependability of a Valve-in-Head Thrift-Master Engine . . . the combined Big-Car comfort and Big-Car safety of the Unitized Knee-Action Ride and Positive-Action Hydraulic Brakes—*all at lowest cost.*

And remember, you get these exclusive motoring advantages in the newest Chevrolet at substantial savings. For Chevrolet has the *lowest-priced line in its field.* And Chevrolet saves you money on gas, oil and upkeep as well.

Choose the car that so many wise farm owners everywhere are choosing. . . . Choose the *newest* Chevrolet for BIG-CAR QUALITY AT LOWEST COST!

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How to tell what your soil needs by appearance of your corn.

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How to prepare the ideal seedbed.

How to fertilize for bigger yields, better quality.

How to plant and cultivate to get crop off to a good start.

How to tell when corn is ripe and when it is ready to crib.

Write Lowe Seed Company, General Offices, Aroma Park, Ill.

Associate Producer: Pike Hybrid Corn Co., Pontiac, Ill.

It's Time to check your corn planter and make certain it's ready to go. Marlowe Saylen (right), Boone county, Iowa, shops for planter plates in Perry hardware store. Clerk is Sherman King.

Adjust Corn Stand To Fit Fertility

Are You Planting Enough Kernels Per Hill To Get Top Results From Fertilizer on Good Soil?

HOW many kernels of corn per hill do you plant? Maybe you aren't growing your corn thick enough to obtain the peak yields which your soil is capable of producing.

For two years, research men at the Iowa experiment station have run tests to find out how many stalks of corn you need per hill to get the best results from large amounts of fertilizer.

L. B. Nelson and Lloyd Dumenil, Iowa State College agronomists, made the tests.

It takes a good stand to get the most from fertilizer. On some of the most fertile fields, even where no fertilizer is used, maybe we could get higher yields with thicker stands.

Corn on most of the farms that were checked in the tests averaged about 2.4 stalks per hill.

One of the conclusions drawn from the tests is that adding 4,000 stalks an acre to an average stand on a highly fertile field, or one that has been well fertilized, will raise yields from 8 to 16 bushels per acre. In 40x40-inch checked corn, one stalk per hill gives 4,000 stalks.

Moisture is one of the serious limiting factors to corn yields in many Iowa areas.

But if the moisture and fertility of your soil are very good, you

Stalks Per Hill and Yields, With and Without Fertilizer

(All checked corn in hills 40x40 inches)

1945

CLARION LOAM, LOW IN NITROGEN, THIRD YEAR OF CORN

Stalks Per Hill	Stalks Per Acre	Yield in Bushels Per Acre: 115 lbs. of 2-12-6 in the hill	Yield in Bushels Per Acre: 2-12-6 plus 600 lbs. 8-8-8 at plow sole
2	7,800	59	71
3	11,700	67	83
4	15,600	62	92

1946

WEBSTER CLAY LOAM, VERY LOW IN NITROGEN, PHOSPHORUS AND POTASH, THIRD YEAR OF CORN

Stalks Per Hill	Stalks Per Acre	Yield in Bushels Per Acre: Check, no fertilizer	Yield in Bushels Per Acre: 8-8-8 fertilizer at plow sole
2	7,800	51	60
3	11,800	59	69
3.8	14,900	66	78
4.5	17,600	55	82
CLARION LOAM IN SOYBEANS IN 1945, MODERATELY LOW IN PLANT FOOD			
1.9	7,600	55	64
2.6	10,200	70	72
3.2	12,600	75	85
WABASH SILT LOAM, RIVER BOTTOM SOIL IN CLOVER IN 1945			
2.5	9,800	107	109
3.4	13,500	128	124
4.1	16,200	136	134
4.5	17,600	127	137

Farmers couldn't start disking on time this spring. How many will go from oats to soybeans because of the late start?

may get the highest yields from stands of 15,000 to 19,000 stalks per acre. That is four or five stalks per hill in 40x40-inch corn.

If your soil isn't very rich, if you don't use fertilizer, or if soil moisture is low, best yields may come from three or four stalks per hill. But few farms have stands this good. Maybe we're too tight with our seed when we plant it.

The tests showed that planting corn thicker makes smaller ears. But picking the small ears isn't the problem it was in hand-husking days. And small ears seem to shell out about as well as the large ones.

Fertilizer on fields low in fertility will help make larger ears. On a field low or moderately low in fertility, you can grow an extra 2,000 stalks to the acre without reducing ear size if you use plenty of fertilizer.

But don't get too excited and think you have one of those really high fertility fields just because you plowed under some red clover and used 150 pounds of 3-12-12 per acre.

In these tests, as much as 600 pounds of 8-8-8 was used in the plow sole at the bottom of the furrow, plus 115 pounds of 2-12-6 applied in the hill.

You may wonder how to figure the number of stalks per acre. In check corn, 40 inches each way, or in drilled corn with the rows 42 inches apart, the following figures apply:

Two stalks per hill, or 19 inches apart in drilled corn, equals 7,840 stalks per acre; three per hill, or 12.5 inches apart, equals 11,760 per acre; four per hill, or 9.5 inches apart, equals 15,680 per acre; five per hill, or 7.2 inches apart, equals 19,600 per acre.

Those figures are stalks per hill, not number of kernels planted.

There are some dangers in a program of increasing the rate of planting. Many times in Iowa, lack of moisture is a factor that holds yields down. Except in small areas, that hasn't been the case during the test years.

Too many stalks per hill will cut yields in a dry year. And you can lower yields by planting more stalks than the fertility of a field can carry. You can see in the accompanying table where that happened in 1946 tests.

A little experimenting on your own farm may be in order. You know you want to make full use of the plant food and the moisture available. So you might try some different stands. Shoot for four stalks per hill in trials on your best, most heavily fertilized land.

WE MOBILGAS MEN TRY TO BRING OUR CUSTOMERS EVERY KIND OF PETROLEUM PRODUCT THEY NEED ON A FARM. I CAN RECOMMEND JUST THE RIGHT OIL OR GREASE TO LUBRICATE EVERYTHING FROM A CREAM SEPARATOR TO THAT NEW CORN PICKER. IF INSECTS BOTHER YOUR COWS YOU CAN'T BEAT MY SANILAC CATTLE SPRAY. AND I'VE GOT A COMPLETE LINE OF HOUSEKEEPING AIDS..,WAXES, CLEANERS AND POLISHES THAT MAKE THE JOB A LOT EASIER FOR YOUR WIFE. THERE ISN'T ENOUGH ROOM HERE TO LIST ALL THE THINGS I CARRY, BUT THOSE NAMED BELOW WILL GIVE YOU AN IDEA. I'D LIKE TO SHOW YOU THE WHOLE LINE-UP SOMETIME SOON.

Your Mobilgas Man

THE RIGHT MOBILGREASE FOR EACH JOB CAN SAVE A LOT OF TIME AND MONEY. FOR INSTANCE, MOBILGREASE NO. 2 IS SPECIALLY MADE TO "STAY PUT" EVEN WHEN EXPOSED TO POUNDING OF RAIN AND SLUSH. A SIMPLE DEMONSTRATION PROVES IT! ASK TO SEE THIS INTERESTING PROOF THE NEXT TIME YOUR MOBILGAS MAN COMES AROUND.

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Feed For Better Finish Feed For Extra Profits

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You can make a first-class hog ration right on your own farm by simply adding Vigortone to your home grains and roughages. That's the way thousands of alert farmers are stretching their grains and stepping-up their profits. Hogs like a grain and Vigortone ration. Thriftiness is definitely raised to a point where your hogs get maximum benefit from the ration. That results in precisely what you are after . . . faster growth, better finish, bigger profits.

Successful Farmers Testify:

John R. Miller and Son, of Washburn, Illinois, write:

Our hogs were doing at the rate of two to three a week, and the balance of the herd was at a standstill.

We had 128 head left when your serviceman called on us. We started on your special Feeding Course for Norm, following the directions very carefully, and are proud to say we still have 128 head which are showing satisfactory gains after two months of Vigortone feeding.

Joseph Horsfield, of Cascade, Iowa, writes:

On March 21 to 28, 1946, my nineteen sows farrowed 189 pigs. I lost three pigs, sold 175 and kept back eleven. These 175 hogs were sold December 1 to 10 at an average weight of 228 pounds and brought a little more than $10,000.

I fed Vigortone and some proteins. I also fed a little $9.00 mineral which I thought a little cheaper, but they would eat 100 pounds in less than seven days. They did good but not as good on two gallons of Vigortone in seven days. So Vigortone must have what it takes.

(Originals in file)

DON'T OVERLOOK YOUR SOWS

Careful attention to sows before farrowing is highly recommended to insure big litters of thrifty pigs. Hog raisers report excellent results from the consistent use of Vigortone during the pre-farrowing period. Write for literature and name of your nearby Vigortone Serviceman.

HOG-BUYERS PREFER Vigortone-Fed Hogs!

Our customers report that hog buyers prefer Vigortone-fed hogs, due to better finish. This means that hog buyers recognize this better quality and pay a better price to get it. Better finish at market time means extra profits for you. Vigortone helps you get those extra profits.

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PREFERRED BY FEEDERS SINCE 1912

He Fastened a disk boxing on the feed box at each side of the horse stall, made a friction drive for the motor by using some of the rubber from a milking machine teat cup, and then made use of a bench grinder to sharpen the whirling disk blades. Sam Brinkmeyer, of Hardin county, Iowa, figured it out one rainy day.

New Taxes Debated In Legislature

All State Costs Up; House Appropriates About 42 Million; Income 34 Million

TOTAL state school aid of $15,125,000 per year was approved by the house of the Iowa legislature when it finished with the big appropriations bills.

This was within $2,967,700 of the $18,092,700 per year asked by the Iowa State Education Association, the Iowa Farm Bureau Federation and the State Department of Public Instruction.

These groups want the state to assume one-fourth of the cost of local schools. The appropriation amounted to 83 per cent of their asking.

The principal reduction was $2,917,600 in the asking for supplemental aid. The house voted $1,500,000 instead of the $4,417,600 it would take to pay supplemental aid in full.

The house voted the $15,125,000 in three bills. The largest single amount appropriated was $8,000,000 a year for general aid to give each school 11 cents per day for each elementary pupil and 14 cents per day for each high school pupil in average daily attendance.

The $8,000,000 is entirely new. It was voted in a separate bill. No votes were cast against it.

The next largest amount was $3,000,000 a year for the agricultural land credit fund. It was voted in another separate bill with only one vote against it. The $3,000,000 is an increase of $2,500,000 over the $500,000 voted for 1946.

The land credit fund was created by the legislature two years ago. It was created for the purpose of having the state assume the school tax burden above 15 mills on farm land of more than 10 acres.

The $500,000 appropriated two years ago has not been distributed because a suit challenging its constitutionality is pending in the supreme court.

The house, in the departmental budget bill, renewed the $2,000,000 a year for transportation of pupils; raised the appropriation for education of handicapped children from $60,000 to $250,000 a year, and appropriated $375,000 a year for various standing aids to consolidated, standard rural, and mining camp schools, and to normal training aid.

In summary, the school aid appropriations voted by the house are as follows:

General aid, $8,000,000; agricultural land credit, $3,000,000; transportation, $2,000,000; supplemental aid, $1,500,000; handicapped children, $250,000; standing appropriations, $375,000. These items make up the total of $15,125,000.

In addition to the school aid of $15,125,000, the house approved appropriations as follows: State departments, $7,616,907; Board of Education, $11,986,500; Board of Control, $7,188,050. Total appropriations voted by the house were $41,916,457.

This total of almost $42,000,000 in appropriations was an increase over two years ago of a little over $19,000,000. State departments were increased as well as appropriations for aid to schools.

The income of the state is below the amount appropriated. C. Fred Porter, state comptroller, and Louis Cook, of the State Tax Commission, estimated the average income of the state general fund over the next two years as $34,050,000 per year. This is after payment of homestead tax credits and old-age assistance.

This seems to mean that house appropriations are about $8,000,000 per year above the expected revenue from taxes.

Gov. Robert D. Blue has been insisting since the legislature opened that appropriations be held to an

Blue wants Iowa taxes to match spending. But legislature is finding it difficult to comply.

amount that can be paid from current income, that is, from the regular general fund augmented by surplus in revenue from the sales, income and use taxes above what this revenue has to pay for homestead tax credits and old-age assistance.

The figures and administration policy explain why the legislature in its last days was debating whether to cut appropriations from the house allowances or vote more taxes.

The new taxes under consideration included adding 50 per cent to the cigarette tax and 100 per cent to the beer tax, plus subjecting cigarettes, beer and amusements not selling tickets to the sales tax.

Of course, there is the surplus in the treasury saved from war-time taxes. This is estimated at $27,000,000 out of a war-time accumulation of $45,500,000.

But the appropriations by the house as described above do not include appropriations for capital expenditures.

A building program at the state institutions has been delayed because of the war. There are legislators who say all of the surplus need not be used for new buildings. Some could be used for school aid.

Some legislators say the secondary road question is tied up with the school aid question. Without good roads in all parts of the state, rural school progress will be handicapped.

The house started the compromise between north and south Iowa legislators on the question of distributing secondary road funds on the "area" basis or "need" basis.

The house bill recognizes the principle of roads according to needs. But the principle will be limited in operation. Only receipts in primary road fund, from $21,000,000 to $25,000,000 per year, will be distributed on the need basis.

As all of the money in the primary road fund above $17,000,000 annually goes for the building of farmers' roads, this means that $1,000,000 will be distributed on the area basis before any money is distributed on the need basis.

The primary road fund has not reached $21,000,000 since 1942. Some think that it may reach $22,000,000 this year, which would provide $1,000,000 for distribution where needed most.

Announces Details of $20,000,000 Price Reductions

FARM TRACTORS
12 Models
Reduced $10 to $134 (up to 10.6%)

MOTOR TRUCKS
12 Models
Reduced $50 to $300 (1.9% to 3.6%)

FARM MACHINES
123 Models
Reduced $2.50 to $122.50 (1.9% to 23.8%)

INDUSTRIAL TRACTORS (Crawler)—4 Models
Reduced $35 to $50 (1.0% to 1.6%)

Details of the recently announced International Harvester policy of making price reductions to save users of our products approximately $20,000,000 a year have now been worked out.

We have reduced prices on 163 models. These cover 12 basic models of farm tractors, 123 basic models of farm machines, 16 basic models of industrial tractors and engines, and 12 models of motor trucks, as well as certain motor truck attachments. The new lower prices are effective as of March 10, 1947.

These reductions were made not because of any decline in demand, but because we believe nothing is more important to this country than to lower the prices of the goods people buy.

While prices have not been changed on all products, we have made reductions wherever possible, in the amounts possible. Prices of many of our most popular products have been substantially lowered.

Altogether, more than half of the company's customers will be benefited by the reductions, which range from 1% to 23.8% and from $2.50 to $300 per item, based on list prices, F.O.B. Chicago.

Since the people have demanded that the government withdraw from price control in peacetime, the responsibility to keep prices in check is back where it should be—in the hands of business and industry. The business outlook makes it possible for us to move toward the goal of lower prices, and we have felt a duty to act as promptly as possible.

Our ability to maintain these lower prices will depend on the supply and price of materials we buy from others and on uninterrupted production at reasonable wage levels.

The prices listed here carry out our announced policy that *"Any price is too high if it can be reduced."*

25 More Types of Products

Plows—52 models reduced from $9.00 to $20.00 (3% to 10.7%).

Cultivators—13 basic models reduced $5.00 to $10.00 (4.5% to 7.4%).

Listers and Middlebusters—7 models reduced $5.00 in each case (2.8% to 4%).

Corn Planters—4 basic models reduced $5.00 in each case (3% to 4.8%).

Grain Drills—11 models reduced $14.25 to $20.00 (4.4% to 6.3%).

Mowers—2 basic models reduced $4.00 and $11.50 (2.5% and 5%).

Sweep Rake—1 model reduced $5.00 (5.5%).

Pickup Hay Baler—1 model reduced $75.00 (4.1%).

Self-Propelled Combine—1 basic model reduced $122.50 (3.4%).

Ensilage Cutters—3 models reduced $22.75 in each case (4.8% to 7.1%).

Ensilage Harvester—1 model reduced $33.75 (3.9%).

Hammer Mills—2 models reduced $5.00 in each case (1.9% and 3%).

Lime Spreader—1 basic model reduced $2.50 (4.9%).

Power Loader—1 model reduced $25.50 (8.9%).

Manure Spreader—1 model reduced $13.00 (3.5%).

Milker Units—2 models reduced $12.00 and $17.00 (14.4% and 18.4%).

Milker Vacuum Pumps—2 models reduced $17.00 in each case (11.5% and 19.6%).

Portable Milker Vacuum Pumps—2 models reduced $17.00 in each case (11.3% and 11.7%).

Stainless Steel Milker Pails—2 models reduced $5.00 and $10.00 (18.5% and 23.8%).

Cream Separators—4 models reduced $13.25 in each case (8% to 10.4%).

Tractor Trailer—1 basic model reduced $12.75 (5.5%).

Milk Coolers—5 models reduced $8.00 to $18.00 (1.9% to 4.3%).

Industrial Tractors (Wheel)—4 basic models reduced $19.00 to $56.00 (1% to 3.4%).

Industrial Power Units—8 models reduced from $10.00 to $150.00 (2.3% to 11.4%).

Motor Truck Attachments—7 items reduced from $6.25 to $268.00, including a change in specifications on two items.

Any price is too high if it can be reduced

Fowler McCormick

INTERNATIONAL HARVESTER

Are your hogs "EATING THEIR HEADS OFF"?

Phillips 66 Worm Remover Helps Save on Feed Bills!

Some authorities estimate that wormy pigs require as much as 20% more feed! Also, stomach worms . . . if untreated . . . are accused of killing more lambs than any other single factor. To help prevent costly losses in feed, and in livestock too, we recommend Phillips 66 Phenothiazine (pronounced Feen-o-thi-a-zeen) Worm Remover. Use of Phenothiazine as a worm remover was discovered by the Bureau of Animal Industry, U. S. Department of Agriculture. Phillips 66 Worm Remover is simple and easy to use . . . as a drench or mixed with feed or salt. Ask your Phillips tank truck driver to tell you more about this important farm aid.

How can you judge a good gasoline? There are many scientific tests for gasoline. But the "proof-of-the-pudding" test for any gasoline is . . . *performance!* So *try* Phillips 66 Gasoline, yourself! We think you'll agree that this fine quality gasoline actually helps your engine start more easily and deliver top performance every season of the year! For a good, all-'round gasoline . . . for truck, tractor, or car . . . we can sincerely recommend Phillips 66!

If you have special lubricating problems, remember that your Phillips tank truck driver can help you there, too! And because he's usually a farm boy himself, his technical knowledge of Phillips products . . . their uses and advantages . . . has a practical foundation. Please remember that your Phillips man is glad to be of service to you in any way he can!

Phillips 66

FOR BETTER SERVICE . . . PHILLIPS 66

Are New Dealers On Black List?

Iowa Farmers Say What They Think Of New Dealers and Roosevelt Appointees

★ A WALLACE-HOMESTEAD POLL ★

Lilienthal, **former head of the TVA, nominee for chairman of the Atomic Energy Board, was a Roosevelt appointee.**

ARE New Dealers in the doghouse? Some senators declared they wouldn't vote for Lilienthal, former TVA head, because he was a New Dealer and because Roosevelt appointed him.

How do Iowa farm people feel about this?

Roosevelt got 70 per cent of the farm vote in Iowa in 1932, but his percentage dropped to 48 per cent in 1944.

Many Iowa farmers approved many of the Roosevelt policies, such as the ever-normal granary, but are inclined to let Republicans carry them on.

If President Truman appoints a New Dealer to an important post, would Iowa farmers be irritated or pleased?

If Iowa Democrats choose a candidate for governor or senator, should they pick an old-line Democrat or a New Dealer?

The Wallace-Homestead Poll gives some clues to answers to these questions.

Apparently, 40 per cent of the farm people of Iowa are more or less prejudiced against a New Dealer. About 37 per cent are for him. The rest are in the doubtful column.

Political shifts have taken place since 1944. Of those who voted for Roosevelt in 1944, 17 per cent now would be prejudiced against a New Dealer and a Roosevelt appointee.

But 15 per cent of 1944 Dewey voters would favor a New Dealer and a Roosevelt appointee.

The bulk of 1944 Roosevelt voters, 61 per cent, are strong for a New Dealer. The bulk of 1944 Dewey voters, 60 per cent, are dead set against a New Dealer.

Farm people under 30 have the most New Deal supporters. Folks over 50 have the least.

Younger farm people are 40 per cent for the New Dealer and only 27 per cent against. Farmers over 50 are 33 per cent for and 43 per cent against.

Tenants would be prejudiced in favor of a New Dealer. Owners lean slightly the other way.

Farm Bureau members were a little less inclined to favor New Dealers than were non-members.

Of the whole group interviewed, only 21 per cent admit to any real prejudice on either side. The other 79 per cent think that they can judge a man without being influenced seriously either way by his New Deal record.

Roosevelt's **coat-tails in past helped many candidates into office, but his New Dealers have lost ground since '44.**

How Do You Feel Toward New Dealers?

If a man up for public office was (like Lilienthal of TVA) a New Dealer and had once been appointed by President Roosevelt to an important position, how would you feel toward him? Check the statement that comes nearest your views.

1. If he's a New Dealer and a Roosevelt man, I'd be against him ..... 11 Percent
2. I'd be a little prejudiced against him, but I'd try to judge him on other grounds ..... 29 Percent
3. Undecided ..... 23 Percent
4. I'd be a little inclined to favor him, but I'd try to judge him on other grounds ..... 27 Percent
5. If he's a New Dealer and a Roosevelt man, I'd be for him ..... 10 Percent

Gravel in driveway and farmyard helps A. L. Jensen (on ground), of Boone county, Iowa, to keep out of spring mud. "Not as good as cement, but quicker, easier to get and cheaper," says Jensen.

20 Pct. More Milk With DDT

Entomologists Also Give Chemical Credit For Big Increases in Yields of Alfalfa Seed

ALFALFA seed plots treated with DDT dusts, in Utah tests, yielded almost twice as much seed per acre as did untreated plots. In Illinois tests, dairy cows showed increases in milk production of about 20 per cent when DDT was used to control flies.

Those were only two of the reports of interest to farmers which were presented at the annual meeting of the north-central states branch of the American Association of Economic Entomologists, in Des Moines last month.

In the Utah alfalfa tests, plots of 4.8 acres each were dusted with various concentrations of DDT, in the pre-bloom stage.

Most satisfactory control of alfalfa parasites, and largest increases in yield, came from an application of 20 pounds of 10 per cent DDT dust per acre.

The undusted check plot yielded 179 pounds of cleaned seed per acre; the plot dusted with 20 pounds of 10 per cent DDT yielded 314 pounds of seed per acre. Farmers making the check were warned not to use the straw for livestock feed after the test.

And they were warned not to dust after the plants have started to bloom. Dusting too late might kill beneficial bees, tho early dusting did not.

In the Illinois tests on DDT for dairy cows, 12 farm herds were selected on July 10. The week before that was the peak of production for the summer season.

For three weeks following July 10, all 12 herds were treated alike and sprayed at milking time with ordinary fly spray. Production showed a normal and steady summer decline in all the herds.

At the end of the third week, the cows in one group of four herds were given a rather heavy application of DDT and the average milk production jumped 7 per cent in the following week.

Repeated applications were made at intervals of about four weeks. By the end of the test, on September 25, production of the treated four herds was 20 per cent above the four check herds not sprayed with DDT.

Other herds where treatment was not started until later in the season showed similar increases in milk production.

Increased production can not be credited entirely to spraying the cows. A good sanitation program was practiced and buildings were treated with DDT on farms where cows were being sprayed.

In Iowa tests, one dairyman had a decrease in production of 8 per cent from June 15 to June 30. He started spraying with a five-tenths per cent solution of DDT on June 30. His cows were sprayed every two weeks thruout the season.

Production went back up to the June 15 level in less than 10 days and stayed up during the summer. He also used complete fly control, including sanitation and DDT in all the farm buildings.

Dr. Harold Gunderson, Iowa extension entomologist, suggests the spraying of cows with a five-tenths per cent DDT spray every two weeks, plus applications of 2.5 per cent DDT to barn and other buildings once or twice in the summer.

Along with that, clean up all the fly-breeding places. Use regular cattle fly spray in the barn at night if stable flies bother cows when they come in for milking.

The entomologists also discussed the use of DDT in corn borer control. They weren't quite ready to go on record as advocating dusting of all corn in infested areas.

But they've seen enough trials and done enough work with DDT for corn borers that they are willing to give information on how to apply the dust, concentrations and methods to use, if you want to use the dust on your own initiative.

For the present, chemical dust treatment is more or less limited to valuable hybrid seed fields, sweet corn, or areas of very high borer population.

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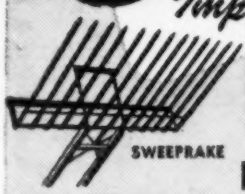
To Demonstrate The Superiority of This Improved Type of Loader

Improved DESIGN! Simplified Construction! Fewer Moving Parts! NOT an inventor's dream! A scientifically engineered job; NO belts, cables, chains, pulleys or gears to cause trouble. Powerful "direct drive" twin hydraulic cylinders lift heavier loads higher with smoother power. Hoists are "stabilized", work in unison, to prevent twist and wear. Load is balanced on tractor frame and rear axle to prevent strain.



EASIEST Loader to attach and detach!

Simply drive under to attach. Drive out to detach. ON or OFF in 3 minutes! Easily handled. Smooth lift. Even power. Easily maneuvered. Clears lowest barn doors. Goes anywhere a tractor will go. Powerful tubular steel construction. A better loader at a lower price!

LIMITED TIME! . . . Try this loader at our risk! Write for descriptive literature and details of "10 DAY Free Trial OFFER".

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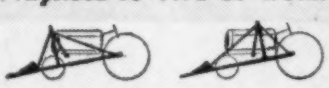

Adjusts to this position for direct lift on heavier loads. Adjusts to this position for increased height of lift.

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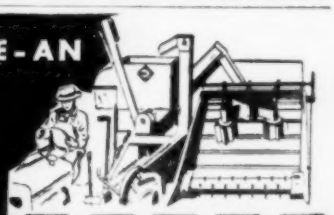
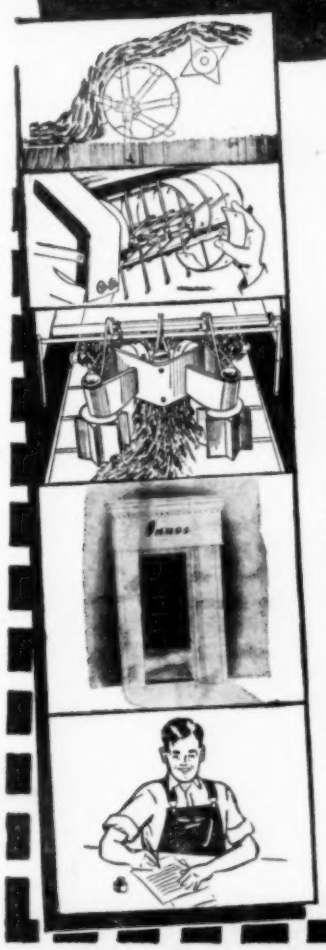
FOR YOUR COMBINE-AN Innes WINDROW PICK-UP





More than 38 different models to fit any combine, all with the patented features that no other pick-up can copy: the piston action, that picks the windrow up clean, yet automatically strips itself of weeds and vines; and the NEW free-floating bearings that save wear on the rotor. So light, too! No need to remove sickle guards, so the Innes is easy to attach. With all this, it is lower in price.

SPRING FINGER MODEL: Easy, on-the-spot repair. Just remove the cover on any damaged finger, take out the finger, and replace it. Specially designed for stony areas. Noiseless.

NEW 1947 FEEDER. Better than ever! Separates and smooths out even the toughest windrows, like flax, distributing the windrow evenly along the entire length of a full length threshing cylinder. Travel 1/3 faster without extra power.

For over a quarter of a century, Innes Company has been manufacturing and selling better pick-ups; they are the largest exclusive manufacturers of pick-ups and feeders in the world! See your dealer or write

Innes COMPANY
DEPT. 9 BETTENDORF, IOWA

At this time of year, a *three-way* program of poultry feeding is essential for best results. Your laying hens must be fed a ration to keep up egg production. Your growing pullets need feed that will help them develop into deep-bodied layers. Your cockerels require a ration that will bring them up to market weights fast.

For More Eggs

Swift's Poultry Concentrate gives your poultry rations the essential elements for laying, starter and growing mashes. Used in the right proportion with your home-grown grains, it will balance all your chicken and *turkey* feeds properly. Feed it regularly and you will have healthier flocks and higher profits.

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Both Animal and Vegetable Proteins

Successful poultry raisers rely on Swift's Poultry Concentrate. It furnishes plenty of *animal* and *vegetable* proteins, essential minerals and health-building vitamins. It also helps your birds get more nutrients from their other feeds.

So whether you are having starter, growing, laying or fattening mashes mixed, insist that your feed dealer use Swift's Poultry Concentrate. Ask him to follow Swift's laboratory-tested and farm-proved formulas. His advice is valuable.

For Profitable Information See Your Feed Dealer

Other Swift Feeds that *speed* production

Swift's Dairy Concentrate **. . . Until your spring pasture is ready, feed your cows plenty of Swift's Dairy Concentrate. Milk production will hold up better, and your cows will begin the pasture season in better condition.**

Swift also makes **. . . Swift's Swine Concentrate, Swift's Steer Concentrate, Swift's Turkey Concentrate, Swift's Mineral Supplement.**

Order today from your feed dealer or nearest

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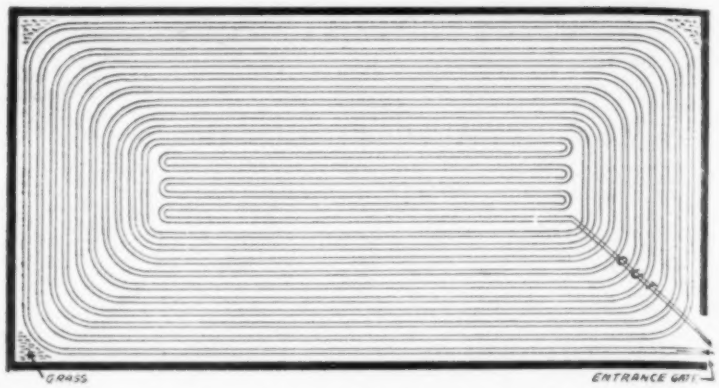

Circular Planting of corn and beans is used by Elmer Gallentine, Marshall county, Iowa. He starts at the outside, as shown above. When he gets thru, he is in the middle of the field. Rows are kept circular by widening at the corners each time around.

Plants Row Crops Around Fields

Farmer Says It Saves Time and Effort With Planter, Cultivator and Harvester

IMAGINE planting a 20-acre field of corn or beans without once lifting out the runners. Or cultivating such a field without having to raise the plow shovels.

"It saves a lot of time," says Elmer Gallentine, Marshall county, Iowa, enthusiast for circular planting of row crops.

This rainy day, Gallentine was making an evener out of heavy pipe for a five-section drag. Another means of saving precious time, for he operates 400 acres.

He drew a diagram of the way he lays out a field. It is very simple. Start at the outside, working in and keeping the corners round, like operating a stirring plow in plowing around a field and not lifting it out at the corners.

Give a little ground each time at the corners to keep them rounding. That is, curve somewhat inside of the marker line.

"But how do you finish at the center?" he was asked.

"Plant a few separate rows to fill it in," he said. When the rectangle gets too small to turn ends easily, he lifts the planter and goes back and forth with the conventional parallel rows.

"Say you have a square 40," he said. "Just cut it into two rectangular 20's." A long, narrow field is best for his method. He power drops his corn in rows 40 inches apart, with hills every 20 inches.

Direction at the start depends on the machine that will harvest the crop. For a right-handed pull-type picker, rows must run clockwise, as shown in the diagram.

Start the harvester at the outside and keep going, with no field opening or down rows to pick. A one-row picker must jog over a row each round; a two-row picker or combine is never off the row.

With a mounted picker, begin picking in the center, Gallentine said; otherwise the wagon trailing behind will cut in and knock down corn at the turns.

"But how do you get to the center?" he was asked.

"Drive in across a corner with the picker in gear. It will gather in much of the corn you run over. Begin at the point where the circular rows end. Detached rows in the center can be picked later, after you have opened up turning room at the ends."

This "revolutionary" style of planting should be used only on relatively level land. Since it can't be cross-cultivated, rows will be ridged more or less and erosion would be disastrous if they ran up and down the slope. Contour planting is, of course, the answer here.

Why don't more people plant this way, when it's such a time-saver? Likely because it's hard to break away from cross-checking.

But contour experience proves weeds may be controlled about as well with one-way cultivaton. And many who do not contour now power drop or drill corn on level fields to get heavier yields.

Then there's the objection of weeds left in wider spaces at rounded corners, which the cultivator may not reach. You may find a triangular island of weeds between each pair of rows at these turns.

"But," counters Gallentine, "you generally see weeds along the turn row, anyway, when the shovels have to be raised and lowered."

Another objection might be the difficulty of getting in and out of the field with equipment. The answer might be to leave the implement in until you finish, and then drive out from the center across a corner.

A diagonal lane might be left up one corner, but Gallentine doesn't consider this necessary. Driving across will not knock down any more corn than one loses at regular turn rows, he says.

If rows are ridged much, such crossing would be bumpy. In this case, to level it, and also to catch some of the weeds, one might keep the cultivator shovels in the ground in driving out from the center after finishing the field.

In harvesting corn, will the picker elevator miss the wagon at the turns? Newer picker models have not only an elevator throw-out, but they also have sufficient hopper space to hold what accumulates while turning.

Gallentine has used this circular method of planting for several years, and is completely sold on its efficiency. It works for soybeans, too. All row crops adapt themselves to it equally well.

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they – lubricate
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Your DEEP ROCK man wants your order for DEEP ROCK lubricants and Tractor Fuels. He will give you excellent service . . . prompt delivery. Don't forget what the wartime years taught us: frequent chassis lubrication and regular oil changes are the *lowest* cost maintenance insurance for farm equipment and machinery.

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Grass for 75 cows on 240 acres requires the planning of pasture use on W. C. Vigars farm in Hardin county, Iowa. Six-year rotation includes two years grass.

Pastures Need Vacation

NOW'S the time when we begin to think about turning cows onto pasture. But maybe ours is not so good as we wish it were. We look across at a neighbor's lush stand and wonder: "How does he do it?"

"If a farmer will help the land a little bit, it will help him so much more." So asserted E. C. Wickersham, a Marshall county, Iowa, farmer and soil conservation commissioner, in telling how he had improved his pastures.

The help you can give your pasture now will be mostly in managing the grazing and in keeping the weeds down.

Some fertilizer in the form of nitrogen could be added, but it is too late for renovating and reseeding old pastures.

Any new seeding done now would have to be for supplemental pastures. Oats and rape or sudan grass for summer pasture could still be sowed.

Good managers allow a recovery period for heavily grazed pastures, either in the spring or fall.

The plant leaves must be permitted to develop in order to rebuild the root system. If they are kept eaten into the ground all the time, the plants become weakened and stunted.

"Bill" Vigars, an ex-GI and a junior partner in the dairy business of W. C. Vigars & Son, relieves the permanent pasture by the use of rotation pastures.

Vigars & Son's 240-acre farm of rolling Tama silt is laid out with three fields of 15 or 20 acres each bordering a permanent pasture of 20 acres. Two of these fields will be used for meadow each year.

That fits into a six-year rotation for the farm as follows: Corn, oats with sweet clover, corn, oats with brome-alfalfa, meadow, meadow.

Earl Lyon, of Hardin county, Iowa, has two pastures, one north and one south of the barn lots. He turns his Jerseys into one in the daytime and the other pasture at night.

Weed control is another factor in good pasture management. The efficiency of an otherwise satisfactory pasture is often impaired by weeds and brush.

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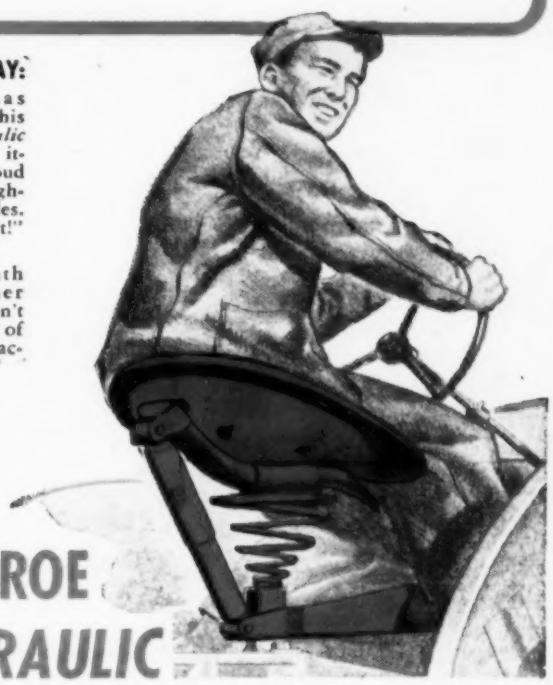
H. L., Kansas farmer says: "This Monroe *Hydraulic* Seat speaks for itself! I was proud to show my neighbors how it rides. They all want it!"

A. C. H., South Dakota farmer says: "Why didn't somebody think of this wonderful tractor seat before!"



MONROE HYDRAULIC E-Z RIDE TRACTOR SEAT

CAN YOU IMAGINE ever having a smooth comfortable ride on a farm tractor! Well, here you are—and you're not dreaming, either! The New Monroe *Hydraulic* E-Z RIDE TRACTOR SEAT will give you just that . . . even across furrows! It's a blessing to any tractor farmer!

NO MORE SPANKINGS! With this scientifically-designed seat, those punishing jars and jolts of ordinary tractor riding are gone forever! They're absorbed mechanically and hydraulically.

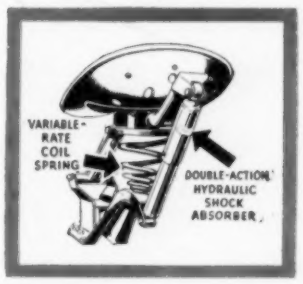
MORE SAFETY, TOO! E-Z RIDE will not pitch you out. You need no longer drive standing up to take the kinks out of your back.

YOU'RE AT EASE mentally and physically! Less fatigue means better health and more accomplished per hour, day or season.

NEARLY 300,000 NOW IN USE! Just ask your neighbors about the amazing new tractor seat with 30 years' ride control experience behind it!

HERE'S WHY

- The scientifically designed Monroe *Hydraulic* E-Z RIDE TRACTOR SEAT is supported by an automatically adjusted coil spring of just the right tension to give the same, smooth easy ride to man, woman and boy alike.
- Monroe *Hydraulic* Shock Absorber controls spring action, cushions the ride.
- Stabilizer takes care of side-sway.



EASILY INSTALLED IN 15 MINUTES!
No holes to drill. No welding. No special tools needed.

E-Z RIDE FITS THE 21 MOST POPULAR MAKES AND MODELS OF TRACTORS

WHY DELAY! BUY TODAY!
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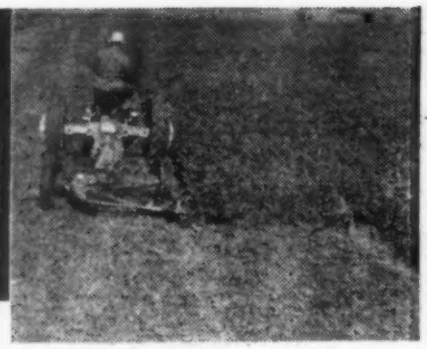
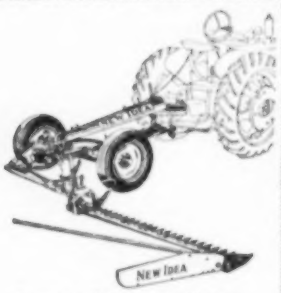
MONROE AUTO EQUIPMENT COMPANY... MONROE, MICH.

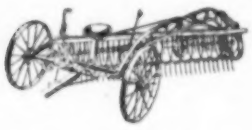
NEW IDEA Haying Machines





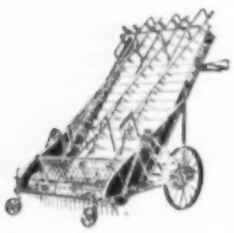
A mower that works with any tractor having standard A.S.A.E. take-off and draw bar. Quick easy hitch. Many unusual features. Completely power operated. Cutter bar raised and lowered by power.

designed to save *HIGH FEEDING VALUE*



A side delivery rake that can be reversed for tedding. Famous for its self-leveling, flexible, spiral reel, patented double-curved teeth; quick shift wheel spacer and many other desirable features.

Tender crinkly *leaves*, rich in *protein* — bright natural *color* that indicates *vitamin* potency — soft *texture* and appetizing *fragrance* — farmers know that hay which retains these characteristics is a truly *high grade* feed. NEW IDEA Haying Machines are specifically designed to *save more* of this nutritional bounty for your mow.



A cylinder-pushbar loader that builds big high loads easily. Handles heaviest windrows without jamming. Direct-action cylinder; yielding closed deck. Picks up clean, saves valuable leaves and short pieces.

The remarkable NEW IDEA Tractor Mower does its job so quickly, smoothly and reliably that you gain full advantage from sunshine hours which follow for curing. The NEW IDEA Rake builds its tall, fast drying windrows in a way that protects both leaves and color. The NEW IDEA Loader picks up clean, elevates without threshing and delivers on the load without losses.

A modern, rubber tired, all steel wagon, extremely useful for haying and other field and road hauling. Easily adapted for practically any style box, bed or load. Strong, safe, handy, light running.

If you want *better hay*, as well as machines that have a reputation for giving you *better service*, consult your local NEW IDEA dealer. Or write direct to our Coldwater office for free descriptive literature.

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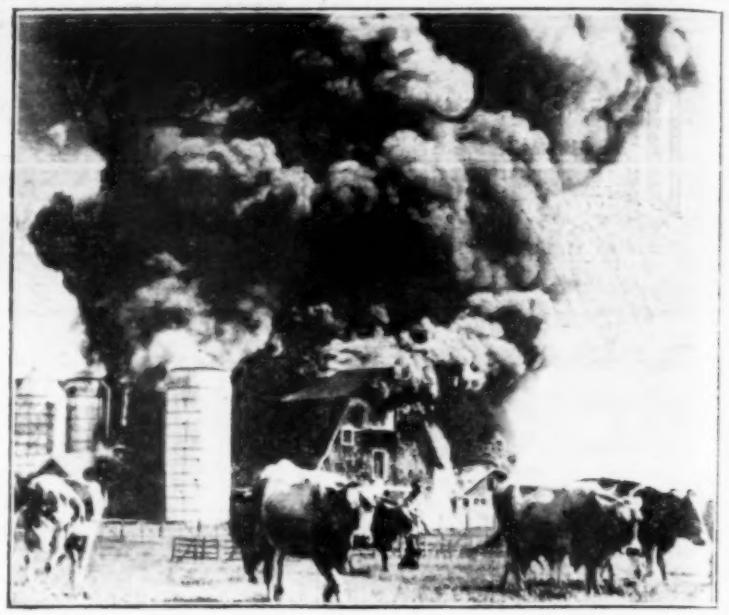
FARM EQUIPMENT COMPANY
***Factories:* Coldwater, Ohio — Sandwich, Illinois**



This Can happen to you. Spring clean-up on the farm is low-cost fire insurance. Don't allow feed-bags, dirt and dust to pile up in the corners. Get rid of oily rags. Rake leaves and weeds away from buildings and fences—and don't burn them on windy days.

Voice of the Farm

Wants Budget Cut Other Places

To the Editor: By encouraging the use of dairy products, the school lunch program has contributed immeasurably toward the improvement of the health of young people.

Congress should appropriate the money necessary for the lunch program without hesitation. There are many places where the budget can be cut without taking away from the nation's youth. — Harry Lage, Scott County, Iowa.

Congress seems to be having trouble finding them.—Editor.

He Knows About Roads From Experience

To the Editor: I am a retired rural mail carrier. In nearly 35 years of service I have heard of or seen a great deal of suffering, caused mainly by roads which were bad because of indifference or neglect.

Just try for once to follow your mail carrier. He, along with the school bus driver, the milkman, the ambulance driver—and, last of all, the undertaker—will thank all who have aided or will aid in getting better roads and schools.—Harry Welton, Bates County, Missouri.

In some places, road troubles are caused, not by indifference, but by lack of tax money.—Editor.

Calls Iowa Schools "Adequate"

To the Editor: Certainly a $400 bonus won't solve the problem of a veteran permanently. But it would greatly aid in building a foundation for future problems.

I think our schools are above average. Iowa's literacy rate is outstanding. And I don't think it is especially the good schools that put out our world aces. If a child is going to make good, and has the right stuff in the right place, our schools are adequate.—D. C. Kepford, Crawford County, Iowa.

But why are so many Iowa teachers going to other states?—Editor.

Eggs Help Get Money From Husband

To the Editor: After reading your recent article, "Cost of Eggs and Fries," I want to give you my experience and conclusions:

One year during the war I raised my chicks to two pounds apiece with no losses. The cost per chick was 50 cents, or 25 cents a pound. That was market price at the time, so there was no profit on fries, except by dressing them.

When the pullets came into peak production, we sold two 12-dozen cases of eggs per week and bought one sack of mash per week. At that time, 12 dozen eggs just paid for the mash, leaving the second case of eggs to pay for home-grown feeds.

When the pullets slacked up on their production, feed cost was the same, so I don't consider there was any profit in the eggs.

Of course, chickens are one way for a farmer's wife to get money from her husband, if she gets the egg money.—Mrs. R. H., Van Buren County, Iowa.

Are other poultry raisers this pessimistic?—Editor.

We Got Relationship Mixed Up

To the Editor: I would like to make a correction in "It Happened in Iowa" (March 15 issue). When Mrs. Tillie Willemssen Kruger was buried in May, 1946, all six pallbearers were named Ulfert Willemssen. They are sons of Mrs. Kruger's six brothers.—Mrs. Ulfert O. Willemssen, Osceola County, Iowa.

Our mistake. We called them grandsons instead of nephews.—Editor.

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TIME-SAVING
MONEY-SAVING
LABOR-SAVING

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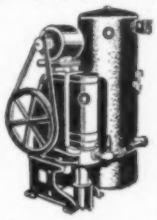
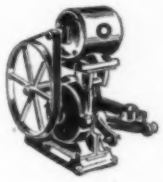
Provide plenty of water for family, livestock, garden. Automatic, quiet, powerful construction, precision-fitted parts. Low-cost operation. Easy and simple to install.





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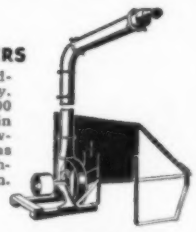
Powerful, smooth running jacks—power to draw water quickly from deep wells. Easy to connect and operate. Give years of service.

GRAIN BLOWERS

Compact, dependable—high capacity. Handle 800 to 900 bushels of small grain per hour. These blowers dry and clean as they elevate—without injury to grain.



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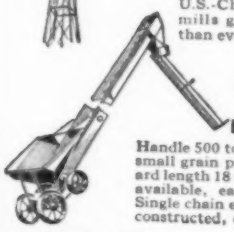
Pump in the lightest breeze. Simply constructed, powerful, run in oil. Ten outstanding improvements make U.S.-Challenge windmills greater values than ever.



PORTABLE GRAIN ELEVATORS

Handle 500 to 550 bushels of small grain per hour, standard length 18 feet (extensions available, easily installed). Single chain elevator, rigidly constructed, compact.

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Fir or redwood, extremely durable. Adequate hoopage for maximum strength. Standard sizes or built to your specifications.

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All-purpose—useful as poultry houses, storehouses, temporary living quarters. Standard size 16 by 24 ft., 8 ft. extensions available. Well built, durable.

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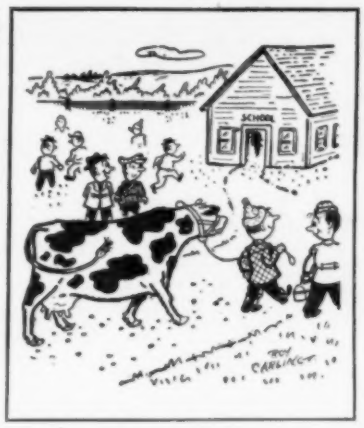

"The Thompson kids like to have warm milk with their lunches."

But Iowa Can't Pay Bonus Now

To the Editor: Most farm veterans were forced to sell all or practically all of their property when they were inducted. Now they are faced with serious difficulty in obtaining equipment to resume their pre-war occupations.

Most farm veterans are in need of financial aid to make up for what they lost while they were in the service.—W. G., Delaware County, Iowa.

Veterans who favor a state bonus may be overlooking one important fact: The Iowa constitution says a bonus plan must be approved by a vote of the people. This means that even if the present legislature okayed a bonus, the veterans probably wouldn't get it before 1950.—Editor.

Wants Bonus Before Next War

To the Editor: Every veteran should have a bonus now, so he can spend it before they get another war started.—Ellis Mullins, Page County, Iowa.

See editor's note above.—Editor.

Says Dairymen Need School Lunches

To the Editor: The school lunch program has been of much value to dairymen because it has increased consumption of milk.

The fact that some dairy product prices have declined, while feed and other costs of production have gone up, indicates a need for a federal school lunch program next year.—Fred K. Bruene, Tama County, Iowa.

It will help, all right.—Editor.

Should We Have That Bust Now?

To the Editor: Congress sabotaged OPA in spite of the fact that something over 70 per cent of the people thought it should be retained until inventories were filled and goods were back on the store shelves. Now they are going to reduce income taxes when we were never so well able to pay and probably never will be again.

Looks like those who believe that "boom and bust" made America what she is are doing all they can for the boom and the bust again. If we must have a bust, let's have it as soon as possible and face its problems.—R. J. Mason, Hardin County, Iowa.

But let's avoid it if we can.—Editor.

★FIRST

With 45 years of manufacturing experience and 15 years of loader experience back of it, The Caswell Hydraulic Power Loader maintains its leadership in the field. The **first loader** of the past is still **the loader of the future!**

CASWELL PATENT

Caswell Rigid Crossed-Chain Stabilization

The double lifting chains cross over top of the single cylinder, forming an X, which gives complete rigidity and stability in operation.
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CASWELL PATENT

Caswell Fork Tilt Control

The handy lever in operator's reach adjusts or "sets" tilt of fork to any desired position.
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The Caswell Curved Guide

Our famous upright "bow" or curved lift guide holds mechanism firmly in center line of tractor and eliminates all side sway.
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The Loader That Leads In PATENTED Features

BEING FIRST, we were able to originate **and protect** the many basic, common sense construction features which make The Caswell Hydraulic Power Loader so simple and safe to operate—so easy to mount and unmount.

BUT The Caswell has not stopped there—new ideas and improvements have been added each year to keep it in front—**the loader that leads** in efficiency, convenience and economy.

Completely Modern

The Caswell has no gears, no sprockets, no clutches, no winding drums, no brakes. Nothing to wear out. Single hydraulic cylinder with crossed chains gives tremendous, balanced lifting power. Low head room. No excess weight.

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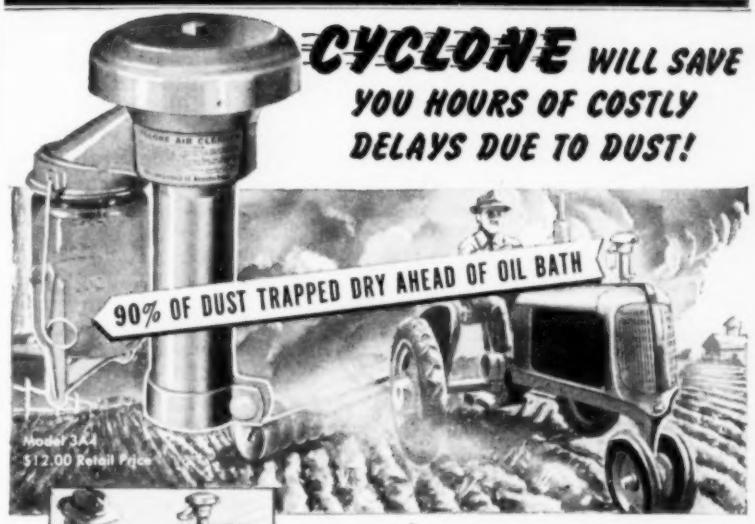
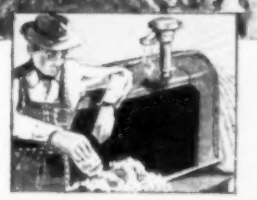
Any Caswell dealer will gladly "show you the difference" in The Caswell including its all-important **patented features.** Get FREE ILLUSTRATED CIRCULAR—**or write direct to Dept. 10.**

CASWELL MANUFACTURING CO. Cherokee, Iowa





DELAYS CAUSED BY SERVICING OIL BATH CLEANER REDUCED...UP TO 90%!

The Cyclone mounts ahead of the factory installed oil bath air cleaner and permits oil bath to function many more hours without cleaning and servicing.

The mason-type glass jar on the Cyclone is removed . . . emptied . . . replaced — all in a few seconds without stopping the engine!

There's a Model to Fit YOUR Engine

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Airborne dust and other abrasives cause serious damage to tractor and other internal combustion engines. You can stop this costly damage *NOW* by installing Cyclones on all equipment operating under dusty conditions. Cyclone Air Cleaners will help cut repair bills and prolong engine life for you, just like they are doing for thousands of other satisfied users.

Buy a Cyclone, try it for 15 days. Your money refunded if you think you can afford to operate without it!

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Let Champlin HI-V-I oils solve your Lubrication problems the same as it has been doing for thousands of power machinery operators, farmers and ranchers thru-out the middle west for the past 31 years.

Champlin HI-V-I is a remarkable new Aviation Oil . . . refined by an entirely new and different duel solvent process . . . from 100% Paraffin Base Crude, the finest obtainable.

Champlin HI-V-I (High Viscosity Index) assures thorough lubrication under extreme heat or cold. It protects close-fitting moving parts against friction. There's less wear on metal surfaces . . . less chance for breakdowns, fewer repair bills. HI-V-I reduces gum, sludge and varnish formations in motors to a minimum. Helps clean-up rings, pistons, valves, oil lines and filters.

CHAMPLIN HI-V-I Motor Oil "ON THE GROUND...OR IN THE SKY"

So start today . . . See your friendly Champlin Dealer. Let Champlin HI-V-I solve your lubrication problems.

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Earthworms In Good Soil

HAS your soil got lots of earthworms in it? If so, the soil should be loose and rich.

Earthworms help you work the soil. They loosen a packed soil by digging little holes thru it. Then they eat the dirt. It passes thru their bodies and is expelled in granular form. These "aggregates"—as they call them—do not pack together readily.

The result is a soil that will absorb big rains without packing together and crusting. Air and water can pass thru the soil. These are conditions that make big crops.

How can the number of earthworms be increased in the soil? Henry Hopp and Homer T. Hopkins, Jr., are trying to find out at the Beltsville, Md., experimental farm.

These investigators found that land in row crops every year had about 40,000 earthworms per acre. With row crops every second year, the earthworm count went up to 110,000 per acre.

With a three-year rotation and only one year of row crops, the earthworm numbers went up to 210,000 per acre.

The count of earthworms was made in the year when the land was in corn. So it was a fair comparison of the effect of the three cropping systems.

Other tests at Beltsville have shown that earthworms increase more rapidly when crops are grown that do not require plowing the land. Legume crops also increase the earthworm population.

Time For Clean-Up Campaign

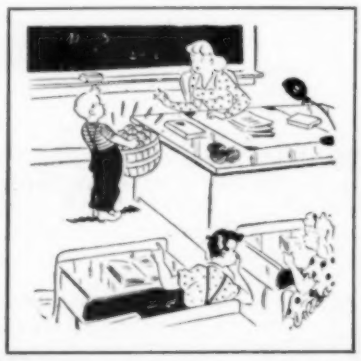
The time you spend now in a general clean-up campaign around your farm buildings will be valuable in cutting down on rats and flies, according to Harold Gunderson, extension entomologist.

Rats cost you about $2 apiece each year, he says. Rats live and multiply in such places as lumber and fence posts stored on the ground, or in garbage, stack bottoms and cob piles.

Lumber and posts should be stored up off the ground. Garbage, stack bottoms and cob piles should be hauled to the field.

Flies lay eggs in much of this same material. If you get rid of the breeding places before the first flies lay their eggs, you will have fewer flies.

Still another reason for a clean-up campaign is the value of manure at current prices—about $9 a ton, Gunderson says.



"He's afraid that he won't be able to pass his examinations."

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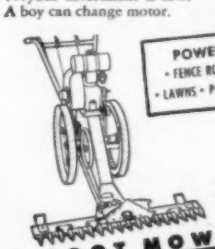
THEY ARE DIFFERENT!

Each Cunningham tool is designed for top efficiency. Then, instead of hanging the tool on the power plant, you put the power plant on the tool. Efficiency is high . . . your investment is low. A boy can change motor.



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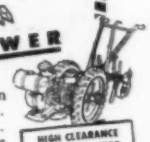
3-FOOT MOWER

Mows clean and fast in tight corners . . . 3-foot cut . . . variable speed sickle bar . . . rugged design . . . young folks can run it . . . motor can be detached for other work. Write for FREE Catalog.



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Adjustable wheel width . . . high clearance . . . simple power drive . . . functional design, balanced for easy operation . . . uses same detachable engine as mower.

. . . and HUNDREDS OF OTHER POWER JOBS

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"IT BUCKS, IT LOADS, IT STACKS"

FAMOUS BOOSTER PUSH-OFF enables operator to easily stack hay to a height of 22 feet or more, even on a windy day.

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Please send me full information about Booster Buck and Booster Scoop.

Name..... R.F.D.....

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NOW AVAILABLE Trojan ALL YEAR HOG-WATERER

NON-FREEZING NO HEATING UNITS No Lamps—No Floats

Provides constant supply of clean, fresh water. Saves time and labor—prevents water waste—safeguards health. Quickly attached to barrel or tank. Delivered price, $4.25! Plus sales tax in Iowa. See your dealer or order direct. Money back if not satisfied.

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One-man SALLY SAW portable

Gasoline motor. Fells and cuts up. Wghs. 63 lbs. Free Folder

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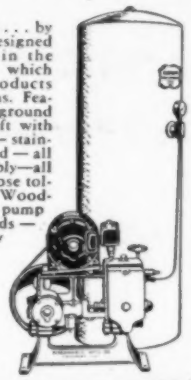
An entirely new item . . . by Woodmanse, and designed and manufactured in the quality tradition for which all Woodmanse products have long been famous. Features forged steel ground extra heavy crankshaft with 3 bronze bearings — stainless steel piston rod — all brass plunger assembly—all surfaces ground to close tolerances. Look to Woodmanse for your water pump and water system needs — Woodmanse is now building pumps!



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The money you make this year depends on the crops you harvest to sell or feed. If hail strikes, let Square Deal policy stand between you and crippling loss. See your Square Deal agent today or write to us for his name.

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Also dynamite for Rocks and Stumps. A time and money saver. Improve your land with profit to yourself. Write for price list and information on our FULL LINE OF EXPLOSIVES.

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300 Farm Bureau Bldg., Des Moines 9, Iowa

Feeding 30 calves is quite a job, as any dairyman well knows. Here, Albert Faber, of Dallas county, Iowa, does it.

Farm News Briefs

STATE FAIR premiums for Iowa this year will total $145,000, the highest in history. Fair dates are August 22-29.

▲ ▲ ▲

FARM BOYS and girls will get nearly $25,000 in premiums in junior classes at the 1947 Iowa State Fair.

▲ ▲ ▲

ONLY ABOUT 25,000 veterans have received GI farm loans so far. The loans are made by banks and guaranteed by the Veterans Administration.

▲ ▲ ▲

NEW EXTENSION director for Benton county, Iowa, is Kenneth Kramer. He had been in O'Brien county, with time out for war service, since 1942.

▲ ▲ ▲

DUSTING by airplane for corn borer control will be demonstrated at the National Clean Plowing Contest, near Clarence, Cedar county, Iowa, April 26.

▲ ▲ ▲

CANADA'S ceiling prices on beef have been raised enough to permit packers to pay $15 a hundred for top quality cattle.

▲ ▲ ▲

L. M. CARL, of Iowa, is one of 16 state agricultural statisticians who have been on the job for 25 years or more.

▲ ▲ ▲

MORE THAN 17 million bushels of 1946-crop potatoes have been exported by UNRRA, Army and USDA.

▲ ▲ ▲

TURKEY production in 1946 was 40.4 million birds, 22 per cent above the 1940-44 average. California, Texas, Minnesota and Iowa led, in that order.

▲ ▲ ▲

FARMERS are the chief users of the nation's 8,000 locker plants.

▲ ▲ ▲

INDEX of prices received by Iowa farmers as of March 15 was 316 per cent of 1909-14. That's within three points of last October's all-time high. Index of prices paid was 233. That left parity ratio at 136, up from 108 a year ago.

▲ ▲ ▲

CORN-HOG ratio in Iowa, as of March 15, was 18.7, and the butterfat-dairy feed ratio was 28.3, both still a little above the 1941-45 average. But the egg-poultry feed ratio, at 11.1, was below average.

Dry Your Hay in the Stack or Mow-

Amazing New Inexpensive BEHLEN Drying Equipment

Food value in most hay crops is mainly in the leaves. When dried or cured in the field, they lose much of their leaves before the hay is put up.

Now, this hay can be dried in the stack or in the mow while it is still green and fragrant, saving the leaves which are so rich in Vitamin A and Carotene. The Behlen HAY-FLOOR, a new invention, is used with the popular Behlen All-Steel Corn Ventilators and Behlen Forced-Draft Dehydrator.

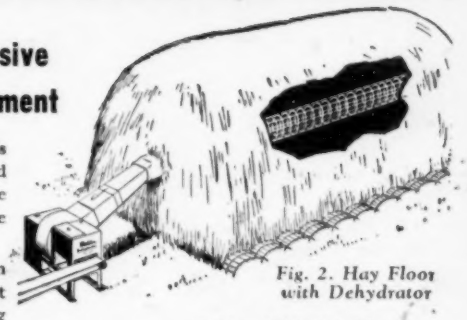

Fig. 2. Hay Floor with Dehydrator

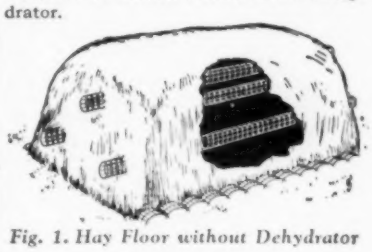

Fig. 1. Hay Floor without Dehydrator

Drying in the Mow

To dry green hay in the mow or hayloft, lay a false floor of Behlen Ventilators and Tunnels on the mow floor. The Dehydrator, placed just outside the building, forces heated air through the false floor into the hay (see Fig. 3). Hay having little moisture content can be dried by unheated air forced into the false-floor by an electric fan. Behlen equipment can also be used for drying chopped hay in a crib and for drying baled hay in a stack.

Behlen hay drying equipment is an important new crop-saver for farmers who grow alfalfa, timothy, red clover and other such hays. Write today for full particulars, prices, where and how to buy, etc.

Behlen HAY-FLOOR

The Behlen HAY-FLOOR is composed of rows of tunnels made of quarter-inch galvanized steel wire mesh with 2x4-inch openings. Eight inches high, this floor keeps the hay off the ground, prevents ground spoilage and allows air to circulate under and move up into the hay. A few feet up, as the stack is built, two rows of Behlen Ventilators are placed lengthwise to allow air to enter at that height, and a third row is placed higher (see Fig. 1). Hay that is stacked before it loses its leaves, dries thoroughly.

The Behlen Dehydrator (drier) used with the HAY-FLOOR will dry stacked hay in 8 to 15 hours (see Fig. 2).

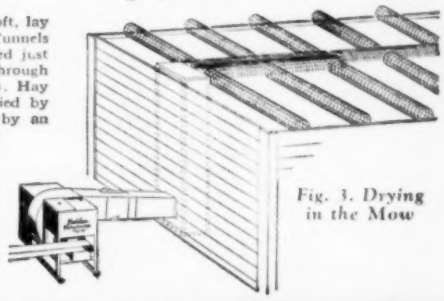

Fig. 3. Drying in the Mow

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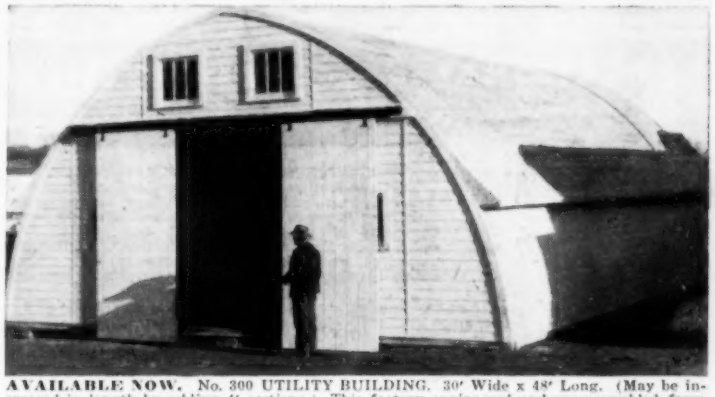

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First Aid for Stock

Twin Bulls Usually Are Breeders

To the Editor: I bought a bull calf that was a twin. Now some tell me that this calf will not breed. He looks O. K., and is beginning to take interest in the opposite sex. What is your opinion? — H. T., Sac County, Iowa.

When there is twinning in cattle, and one of the twins is a female, she is usually called a "free martin." A great many of these heifers prove to be sterile. There are exceptions, however—some female twins will breed.

But a male calf, born as one of a pair of twins, is nearly always fertile. We do not think you need to worry about your calf.

To Treat Anemia In Young Pigs

To the Editor: Will you repeat the directions for preventing anemia in pigs which are kept shut up?—P. B., Clayton County, Iowa.

One method is to put a square of sod in the pen where the pigs can get to it. Another is to give them a copperas solution made as follows: Mix one pound of ferrous sulphate (copperas) in a quart of water. Use hot water, so the copperas will dissolve as completely as possible.

Drench the pigs once or twice a week, or swab the sow's udder once a day with the solution. One-third teaspoon is the dose for a pig under a week old. The dose can be increased as the pig gets older. Some mix the solution with the dirt that is put in the pen.

Treatment can stop when pigs are turned on pasture.

These Calves May Have Shipping Fever

To the Editor: My seven coming year-old calves seem to have caught cold because they have an awful discharge at the nose. What can I do for them, or should I call a veterinarian?—W. W., Lee County, Iowa.

It is quite probable that your calves have what is called "shipping fever." Young cattle especially are subject to this disease. It is aggravated by exposure to cold, windy or wet weather.

The danger from shipping fever arises when the calves contract pneumonia. Pneumonia is not likely to occur if the calves have good legume hay, some grain to sustain them, plenty of good drinking water and shelter from storms.

Watch the calves closely. If any develop rapid or labored breathing, it will be time to call a veterinarian. Don't wait when these symptoms develop.

At the end of a long winter, or after calves have been shipped a long distance, is the time when they have the least resistance to infections. Yellow corn, green alfalfa hay and oats are good feeds to build resistance.

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RHEUMATISM YIELDS TO DRUGLESS METHOD OF TREATMENT

Excelsior Springs, Mo., April 1.—So successful has a comparatively new, drugless method proven for treating rheumatism and arthritis that an amazing new book will be sent free to any reader of this paper who will write for it.

This book entitled, "Rheumatism," fully explains why drugs and medicines give only temporary relief and fail to remove the causes of the trouble.

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You incur no obligation in sending for this instructive book. It may be the means of saving you years of untold misery. For writing promptly, the company will also include a free copy of the book entitled, "Good Health, Life's Greatest Blessing." Address your letter to The Ball Clinic, Dept. 40, Excelsior Springs, Mo., but be sure to write today.

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—Our Ads Are News—

"I Like self-feeders. I can hear lids banging all night, so the hogs are eating," says Earl Heitmeier, of Louisa county, Iowa.

Pregnancy Disease Not Catching

To the Editor: What are the symptoms of pregnancy disease in sheep? Is it contagious?—V. H., Wayne County, Nebraska.

Pregnancy disease is indicated when there is grinding of the teeth, a dull appearance, weakness and finally collapse. There is no evidence that infection has anything to do with the disease. It's thought to be faulty metabolism.

A good ration will help prevent the disease. The ration should include clean, bright legume hay, some sound grain, adequate minerals (including salt) and regular feeding hours. Avoid any abrupt changes in feed.

In the early stages of the disease, recovery can often be aided by medicinal treatment. Diagnosis by a veterinarian should be first secured.

Bang's Vaccinated Calves Safe?

To the Editor: Is it dangerous for cattle vaccinated with calfhood vaccine (Strain 19) to run with or be around cattle that are free from Bang's infection? In other words, can I purchase a bull or heifers that have been vaccinated as calves to run with a herd that is free from Bang's?—W. S. F., Woodbury County, Iowa.

The question that you ask is still debated a good deal. But we believe the past fears of permanent infection of an animal vaccinated as a calf are subsiding.

The federal Bureau of Animal Industry is carrying on experiments now with cows that were vaccinated with Strain 19 when they were calves. It is reported that the vaccinated animals have run with unvaccinated animals for periods of three and four years without infecting the clean ones.

However, it should be remembered that vaccination for Bang's is claimed to be a means of raising resistance to brucellosis. The resistance may last three or four years or more.

About all that can be said now is that cattle vaccinated as calves have not yet infected clean animals in this experiment. The trials are not completed and the BAI has not published its findings.

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Homemaking Department

Edited by ZOE MURPHY

The good traits of the husbands outweighed the bad, but not many of the men were perfect.

Some Men Are Perfect

Orchids to Those Who Are; Onions to the Others

WHAT do you like best about your husband? Is he "simply perfect," or does he have some faults?

Recently, we asked a group of farm women to make out lists of orchids and onions to their husbands—orchids being the things they liked best and onions the things husbands do (or don't do) that were wives' "pet peeves."

The women said they had a lot of fun making up these lists, and, for the most part, the good traits outweighed the bad. But just the same, we aren't printing names of the women, for they made honest reports—and we aren't even giving their home counties.

If husbands want to get even, let them make up lists about their wives and send them in.

Here are a few of the many remarks the women made:

"I present orchids to my husband because:

"He possesses a deep, quiet love and loyalty to his family.

"He is industrious and a good provider. He loves children and has practiced self-denial and sacrifice for ours.

"He seldom finds fault.

"He dresses well when he dresses up and likes for all members of our family to be well dressed.

"He is a true friend, and enjoys sharing his home with friends.

"He is generous, and willing to take me places, and always tells me when he is leaving the farm; but he seldom goes out evenings alone.

"He helps me with my work, and he always hangs up his pajamas."

"I give my husband onions because:

"He calls or comes in to claim my assistance at any time of the day he needs help, regardless of how busy I may be.

"He's not very tolerant of other people's ideas or beliefs if they differ from his.

"He has too much interest in card-playing as recreation, and he listens to radio news morning, noon and night, with the radio turned on much louder than necessary.

"He doesn't like to go shopping with me.

"He doesn't like to take the time to do repair jobs around the house.

"He has to have all trips and picnics definitely planned before starting, then he drives to the spot in too big a hurry to see anything along the way. None of that jolly 'pick up and go until you find a pretty spot' for him."

"Onions to hubby for leaving overflowing ash-trays wherever he reads in the evening.

"Slowness in getting started on making any alterations or repairs on the house. But he does a good job when he gets at it.

"He doesn't like to take time from his work to work in the garden; and he slams doors.

"Orchids:

"He has a good appetite, and never complains about the food.

"He is generous with money—the checking account is ours, and I'm free to use it for anything I want.

"He is industrious and believes in keeping his work up; he likes things in order around the house, and appreciates any help we are able to give him."

"Orchids to my man because he is generous with money. In fact, he'll do without things himself if I don't watch him.

"Because he's faithful in giving me the 'once-over' before I leave the house—stray locks located, drooping slips spotted and crooked seams called attention to.

"Because he will eat anything—at least once.

"Because he takes up the ashes—a job I hate; helps me with the heavy work about the house, and is nice about buttons that come up missing on his own apparel.

"Just two onions: "He'd rather listen to the radio in the evening than take me out, and because he can't keep his nose out of the newspaper long enough to talk."

"Onions because when any work around the house is suggested, whether it's gardening, painting or just general fixing, he says, 'Get some one to do it.'

"The only time he ever compliments my cooking is when we have company. Never wants to play a social game of cards; sits and reads when I have feminine company, and is altogether too civic-minded. Has a meeting practically every night in the week.

"But orchids because he is good about keeping my check book audited; is a crank on keeping bills paid up; eats anything I set before him, and is always willing to have anybody stay at our house any time and for any length of time.

"He remembers me on all the special holidays, and he takes care of the furnace and basement.

"So, things are just about even in my case."

"My biggest orchid to my husband because he has never criticized me in our 31 years of married life; has been a splendid provider and 'super' to our girls and little adopted son.

"The only onion I can think of is his habit of going down to the country store and 'chinning' for hours. And I'm selfish in not liking him to do this."

"Orchids because my husband shaves every morning before he eats. Always eats what's on the table without complaint, and compliments anything that's extra good.

"He eats a lot of meals away from home, and is always bringing home new recipes for me to try. He helps me with my work; wipes dishes, and always hangs up his clothes and pajamas.

"If things go wrong and my plans are upset, and I stew and fuss, he remains cool as a cucumber, and says that 'things will work themselves out.' They always do!"

"Onions because my husband thinks I have too many hats, but never says he likes any particular one. Never says anything about the cooking, good or bad. Has put off too long building in a bathroom with modern fixtures, and belongs to too many things that take his time away from his farm work.

"But, on the other hand, he gave me a beautiful fur coat for Christmas, and will always help with bringing in vegetables, picking berries, etc.

"When I look around, I would not trade; I am satisfied, and will surely hang onto my man, with his few faults and many good points."

"My husband doesn't shave every day. 'If you love me, will you shave?' I ask. 'If you love me, how can you mind a little thing like that?' he answers. And he won't take me out to dances.

"But the orchids cancel out the two 'gripes.' My husband always shows and speaks his affection for me and the children. He is handy in keeping things repaired without too many reminders.

"When I'm not feeling well, or snowed under with jobs, he's not above taking the scrub brush and going to work on the kitchen floor, bathing the children, tucking them into bed, and preparing a meal.

"True, he balks at doing dishes; but I don't like that job, either."

"I give my husband orchids because he wakes up good-natured and has an even disposition; he seldom gets excited.

"He is easy to feed, stays home at night, and doesn't smoke or drink.

"Always agrees when I suggest things, willing to help with housework, and never questions what I do with money.

"He loves reading.

"Onions because he hates to get up in the morning, and has to be called at least five times to his meals.

"He doesn't hear me when I speak to him. (Maybe that's why he says 'Yes' so readily—it saves further conversation.)

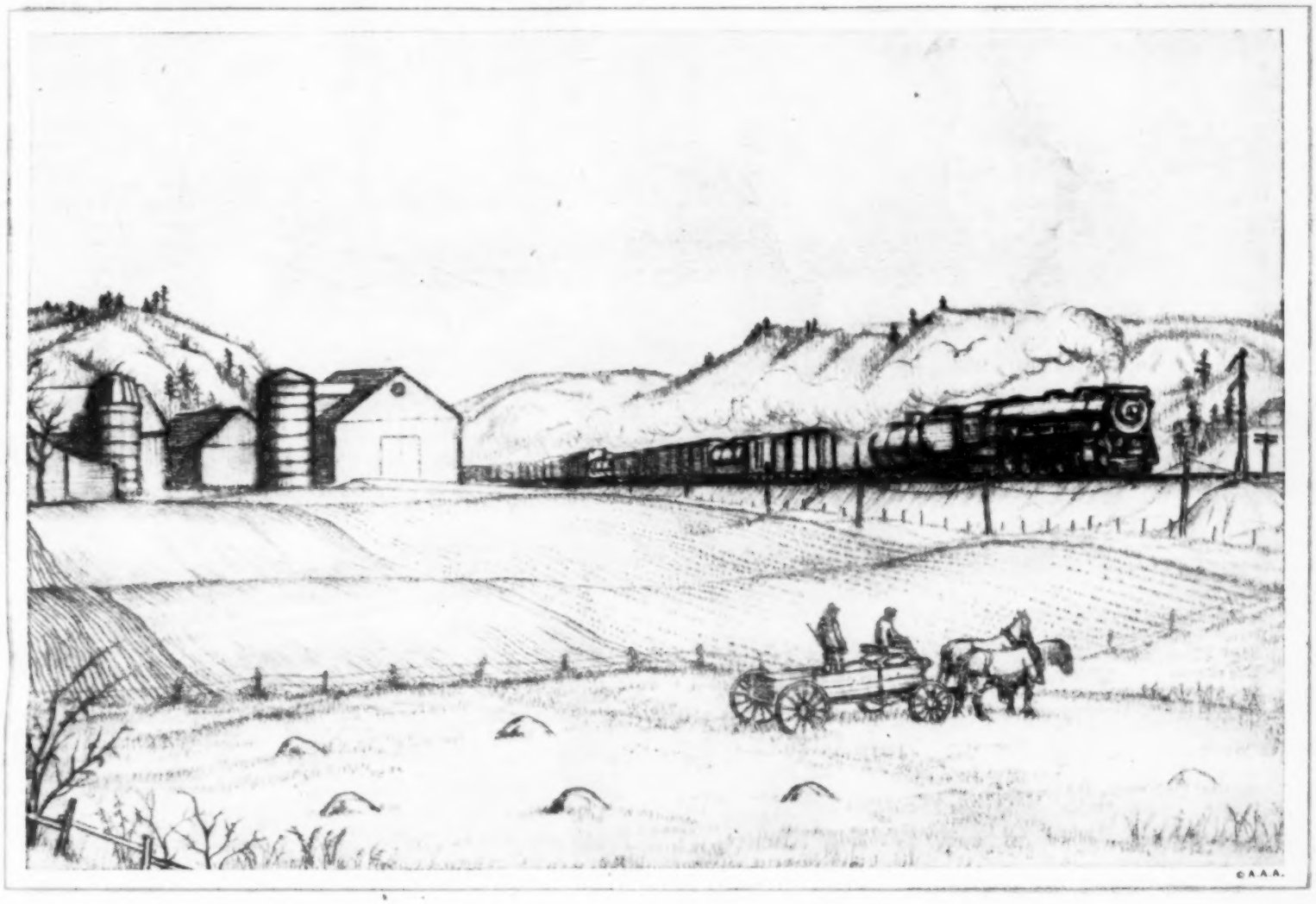
"He doesn't want to take time to do repair jobs about the house."

"He doesn't know what is going on while he reads, which is most of the time.

"He is too free with money; gives the children more spending money than I think is good for them."

PART OF THE AMERICAN SCENE

Passing Freight . . . rumbling wheels on steely tracks . . . clouds of swiftly trailing smoke . . . a long whistle piercing the country calm . . . all this is part of the American Scene. *An etching by Andrew Butler.*



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Because 3. RADIANT ROASTING develops the *full* flavor goodness of every bean in the blend—evenly, through and through.

Because 4. VACUUM PACKING preserves it, roaster-fresh, at the peak of its perfection. No air can get *in*—no flavor can get *out!*

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MAXWELL HOUSE, TOO, IS PART OF THE AMERICAN SCENE

From Procter & Gamble's Great Laboratories-

JUST

GUARANTEE

Procter & Gamble guarantees that Tide will do everything claimed for it in this advertisement. If you are not completely satisfied, return the unused portion of your package to dealer, and the purchase price will be refunded.

Extra miracles in hard water!

Yes, if you have hard water, Tide is a dream come true! Tide's performance in hard water is so amazing, you have to *see* it to believe it! Oceans of suds billow up instantly—even in *hardest* water. And Tide forms no hard-water scum . . . leaves no deposits on clothes or round the tub. No water softeners needed—*Tide does it all!*

TIDE IS A WONDER FOR CLEANING MILKING UTENSILS, TOO...

A Revolutionary New Washday Miracle!

RELEASED

IT'S TIDE... you've never used anything like it!

TIDE is a completely NEW washing product—the most revolutionary washday help that ever came out of a package! Born of new knowledge gained in wartime research, Tide does *what's never been done before*—washes clothes cleaner than any soap, yet leaves colors brighter! The first time you try Tide you'll know it's entirely different! The amazing suds billow up instantly even in *hardest* water . . . and those wonder suds *look* different, *feel* different from any soap you've ever used.

ONLY Tide DOES ALL FOUR!

1. Washes clothes cleaner!

Yes, cleaner than any soap made! Everything comes cleaner with Tide—even heavily soiled work shirts and grimy farm overalls! Tide leaves clothes free, not only from ordinary dirt, but from gray, dingy soap film as well. No soap can get your family wash as clean as Tide!

2. Actually brightens colors!

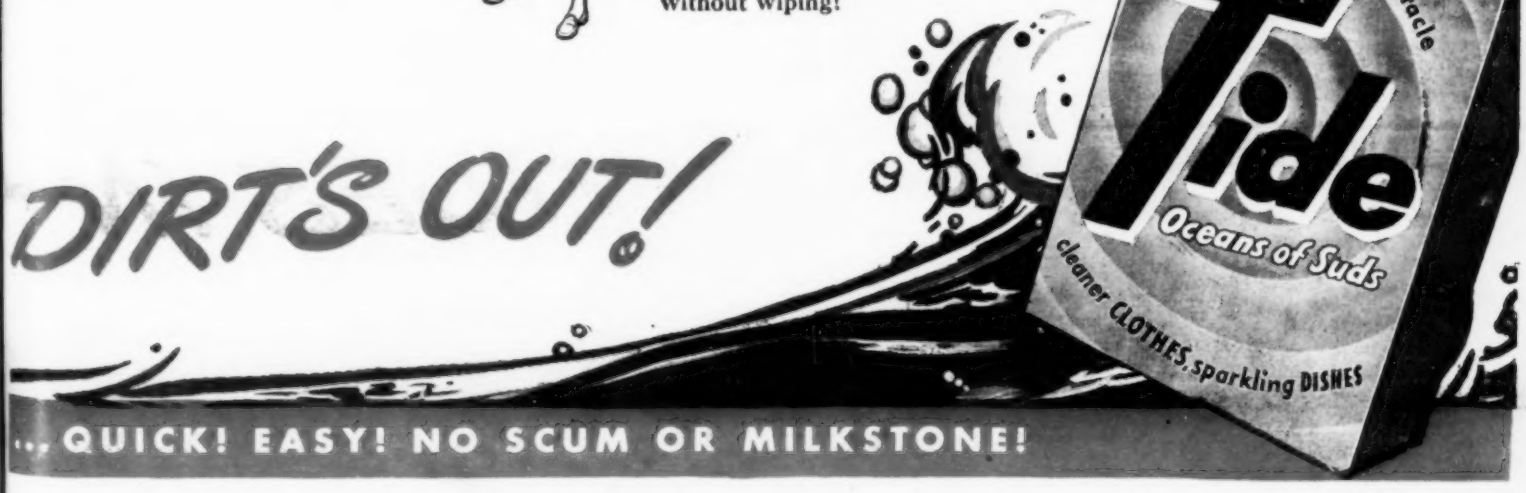
When Tide goes to work on faded-looking, soap-dulled colors, they actually come out *brighter!* Because Tide leaves no film itself . . . and washes away all soap film left from former washings. Yes, Tide is *really safe* for your dainty washable colors!

3. Never "yellows" white things!

Tide keeps sheets, shirts, pillow cases, and other white things *gleaming* white, week after week. Wash them over and over and *over* . . . store them as long as you like . . . Tide can never turn them yellow! It's amazing!

4. Gives more suds— prove it in your dishpan!

Tide gives *more* suds, *longer-lasting* suds than any soap in *hardest* water. And those wonder suds cut the grease like magic . . . wash dishes cleaner than any soap. No scum in the water! No greasy ring round the pan! No cloudy film to cling to dishes and glassware! That's why they rinse and dry so shining bright, so *sparkling clear*—even without wiping!



... QUICK! EASY! NO SCUM OR MILKSTONE!

Delightful For Warmer Weather

No. 1489—Show off an enviable sun tan in a bare midriff sports dress done in crisp white. Sizes 11, 12, 13, 14, 16 and 18.

No. 8154—A favorite in every summer wardrobe—this charming two-piecer goes everywhere with assurance. Sizes 14, 16, 18, 20, 40, 42 and 44.

No. 8157—Just right for romantic summer evenings, a wee-waisted date dress featuring the popular surplice closing. Sizes 11, 12, 13, 14, 16, 18 and 20.

No. 8158—Delightfully cool, round-yoked dress that buttons on each shoulder. Try a gay flower print. Sizes 12, 14, 16, 18 and 20.

No. 1630—Here's a crisply tailored shirtwaist dress you can depend on for day-long smartness. Sizes 14, 16, 18, 20, 40, 42, 44 and 46.

No. 8156—Slim princess lines make easy sewing of this scalloped daytimer. Wear with or without a belt. Sizes 12, 14, 16, 18, 20, 40 and 42.

No. 1521—For the youngest family member, a complete wardrobe in four parts. Makes a nice gift for a young mother. Sizes 6 months, 1, 2 and 3 years.

No. 1627—All she needs to wear for playtime in hot weather. Play dress that's cool, practical and simple to make. Sizes 1, 2, 3, 4, 5 and 6 years.

No. 8136—This bib apron does a grand job of protecting your pretty frocks. Trim with bright rick-rack. Sizes 32, 34, 36, 38, 40, 42, 44 and 46.

The above patterns may be secured for 25 cents each in coin or stamps (coin preferred). The new summer FASHION book may also be had for 25 cents. It contains many helpful ideas; also a free pattern inside the book. For either patterns or the FASHION book, address the Pattern Department of Wallaces' Farmer and Iowa Homestead, Des Moines. Allow plenty of time for delivery.

SPECIAL INTRODUCTORY OFFER

FREE WITH EVERY ORDER!

MAILED ON OR BEFORE MAY 5TH

YOUR CHOICE OF

• PAUL'S SCARLET CLIMBING ROSE • HALE HAVEN PEACH TREE • OR 50 GLADIOLUS BULBS

ORDER BY MAIL NOW ... GET YOUR FREE GIFT!

$100.00 FREE GIFT

TO THE PERSON SENDING US THE LARGEST ORDER ON OR BEFORE MAY 5, 1947.

Yes, $100 absolutely free . . . cash money. Send your order in early—get your fine, healthy nursery stock and at the same time have a chance to win $100 in cash!

FREE! FREE!

$150.00 IN CASH PRIZES

10 . . . $10 PRIZES
10 . . . 5 PRIZES

Every order we receive totaling $5.00 or more may win $5.00 to $10.00! Just write us a letter of not more than 25 words telling us why you like roses. Begin your letter: "I like roses because . . ." That's all—letters will be judged on originality, neatness and sincerity. Your letter may win a cash prize . . . send your order in now!

ROSES

ONLY 49¢ EACH

Hardy, Field-grown
Guaranteed Satisfactory

Enjoy these queens of the flower world . . . grown from heavy stock, with thick canes and strong matted root systems. They are all hardy and field-grown . . . all tested and proven.

AMI QUINARD—Dark velvet red.

BETTY UPRICHARD — Copper and red.

CALEDONIA—Large alabaster white.

EDITH NELLIE PERKINS—Splashed with red and copper.

ETOILE DE HOLLANDE—Rich red with long buds.

EDITOR McFARLAND—Deep pink.

K. A. VICTORIA — Pearly-white and lemon.

LADY HILLINGDON — Deep Indian yellow.

LUXEMBOURG—Deep bronzy yellow.

MARGARET McCREDY — Orange vermillion.

MRS. CHAS. BELL — Shell pink.

PAUL NEYRON—Pure pink.

PRES. HERBERT HOOVER —Beautifully blended red, gold, yellow and pink.

RADIANCE RED—Vivid, true red.

RADIANCE PINK—The best pink.

SENSATION — Sensational in scarlet and maroon.

TALISMAN—A favorite in red, gold and yellow.

CLB. RADIANCE RED — A perfect climber.

CLB. TALISMAN — Your favorite in a climber.

CLB. PAUL'S SCARLET — Intense scarlet, excellent climber.

CECILE BRUNNER (Polyantha)—Exquisitely small pink and white flowers.

FOLLOW THESE SIMPLE CONTEST RULES

1. Complete the sentence "I like roses because," with a letter of not more than 25 words, stating your reasons why the rose is one of your favorite flowers.
2. Letter must be accompanied by an order of $5.00 or more.
3. Mail entry letter and order to Naughton Farms, Inc., Department WF-10, Waxahachie, Texas, before midnight, May 5, 1947.
4. The award of prizes will be based on the opinions of 3 judges, selected by Naughton Farms, Inc., and the decision of the judges will be final.
5. In case of ties, duplicate prizes will be awarded.
6. The contest is open to anyone (except employes of Naughton Farms, Inc., its advertising agency, or members of their respective families.)
7. All letters become the property of Naughton Farms, Inc.

remember, a FREE GIFT with every order! WE PAY THE POSTAGE

DEUTZIA

Gorgeous double pink flowers in early Spring. Very hardy. This flowering shrub yours for just 7¢.

ONLY 7¢ EACH POSTPAID

ALTHEA

Beauty for your home at low cost. A beautiful flowering shrub, yours for only 9¢.

ONLY 9¢ EACH POSTPAID

BOYSENBERRY • BLACKBERRY DEWBERRY

ONLY 9¢ EACH POSTPAID

Big, luscious fruit, fine for eating fresh, for pies, sauces or canning.

PEACH TREES

GUARANTEED SATISFACTORY

Top-quality, strong heavy-rooted. Your choice of: Elberta, Red Bird, Golden Jubilee, Hale Haven, Early Elberta, Rochester. Prices: 12 to 18-in. size, 10¢ each; 2 to 3-ft. size, 35¢ each; 3 to 4-ft. size, 49¢ each; 4 to 6-ft. size, 89¢ each.

AS LOW AS 10c EACH POSTPAID

SHADE TREES

LOMBARDY POPLAR: Tall, erect—effective in rows. 3 to 4-ft. trees, 39¢ each.
WEEPING WILLOW: Picturesque and graceful. 3 to 4-ft., 45¢ ea.
TULIP TREE: Novel, colorful and ornamental. 3 to 4-ft., 69¢ ea.

PEAR TREES

For beautiful trees and delicious fruit, get Naughton's pear trees. Hardy, fast-growing, require little attention. Varieties: Early Harvest, Keiffer, Bartlett, Garber. Prices: 12-in. size, 29¢ each; 2 to 3-ft. size, 89¢ each; 3 to 4-ft. size, $1.10 each; 4 to 5-ft. size, $1.39 each.

As low as 29¢ EACH POSTPAID

PLUM TREES

All Naughton plum trees are field-grown, heavy-rooted. Select from: Red June, Bruce, Blue Damson, Six Weeks, Burbank, Abundance. Prices: 12-in. size, 19¢ each; 2 to 3-ft. size, 59¢ each; 3 to 4-ft. size, 69¢ each; 4 to 5-ft. size, 98¢ each.

As low as 19¢ EACH POSTPAID

APRICOTS

Strong two-year-old, field-grown trees, produced by experts in fruit culture. They'll bring you profit and good eating. Varieties: Early Golden, Moorpark, Superb, Improved Cluster, Perfection. Prices: 2 to 3-ft. size, 59¢ each; 3 to 4-ft. size, 69¢ each; 4 to 5-ft. size, 98¢ each. Postpaid.

APPLE TREES

Fine, heavy-rooted apple trees, field-grown and very hardy. Take your pick of these favorite varieties: Red Delicious, Yellow Delicious, Winesap, Golden Sweet, Red June, Anoka. Prices: 2 to 3-ft. size, 49¢ each; 3 to 4-ft. size, 69¢ each; 4 to 5-ft. size, 98¢ ea. Postpaid.

FLOWERING SHRUBS

HYDRANGEA

Blooms from June 'til frost. Exceptionally hardy. 2-year-old plants, 69¢ each. Postpaid.

GOLDEN BELL

Has showers of golden flowers. Desirable for tall backgrounds. Hardy plants, 2-ft. size, 29¢ each; 3-ft. size, 39¢ each. Postpaid.

WHITE DOGWOOD

Unsurpassed for exquisite beauty. Very hardy. 2-ft. plants, 29¢ each; 3-ft. plants, 39¢ each. Postpaid.

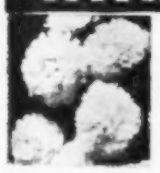
BRIDAL WREATH

(Spirea Van Houttei)
A snowbank of beauty! Strong, 2-ft. plants, 29¢ each. Postpaid.

WEIGELA

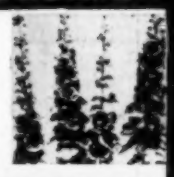
Has deep pink trumpet-shaped flowers. 2-ft. plants, 29¢ each; 3-ft. plants, 39¢ each. Postpaid.

HARDY PERENNIALS — EVERGREENS



HARDY GRENADIN CARNATIONS

Produce a profusion of spicy scented flowers. Can furnish Red, King of Black and Rose Queen. Specify color. Price each, 25¢; 3 for 69¢. Postpaid.



HOLLYHOCKS

An old favorite, growing more popular every year. Blooms are in assorted colors. Price each 25¢; 3 for 69¢. Postpaid.

COLUMBINE

Fine early cutting perennials. Bloom during May and June. Prefer partial shade. Price each, 25¢; 3 for 69¢. Postpaid.

DELPHINIUM

A beautiful shade of blue, they make splendid cut flowers. Price each, 25¢; 3 for 69¢. Postpaid.

SHASTA DAISIES

A solid mass of white with yellow centers. In bloom from May to frost. Price each, 25¢; 3 for 65¢. Postpaid.

BAKER ARBORVITAE

Tall-growing with dense green foliage. 15 to 18-in. plants, 69¢ each; 18 to 24-in. plants, 79¢ each; 24 to 30-in. plants, $1.39 each. Postpaid.

ABELIA

A beautiful broadleaf evergreen. 2-yr. plants, 35¢ each. Postpaid.

PFITZER JUNIPER

A handsome shrub, hardy and fast-growing. 9 to 12-in. spread plants, 69¢ each; 12 to 15-in. spread plants, 98¢ each Postpaid.

NANDINA

Colorful and handsome. Has red berries in winter. 12-in. plants, 69¢ each; 18-in. plants, $1.49 each; 24-in. plants, $1.89 each. Postpaid.

SATISFACTION GUARANTEED

If any plant offered here fails to please you, notify us within 5 days after date you receive your plants and we will either send you other stock satisfactory to you or refund your money in full.

We Pay the Postage

100 FOOT HEDGE

50 Amoor Privet Hedge Plants for just $1.98. Set them two feet apart for a handsome 100-foot hedge. Grow well and quickly in all soils. Don't miss this bargain! Order offer No. HE-9. Postpaid.

ONLY $1.98

3 PEONIES

Great balls of color, with shaggy heads and exceptionally large blooms. Easy to grow . . . never winter-kill. A bargain for only $1.29. Order offer No. S1-A. Postpaid.

ONLY $1.29

30 GLADIOLI

A big bargain for your money! Naughton Gladiolus bulbs are noted for their fine blooming qualities. Send only $1.00, postpaid—get 30 Gladi

ONLY $1

MAIL THIS ORDER COUPON TODAY

NAUGHTON FARMS, INC., Dept. WF-10, Waxahachie, Texas

Gentlemen: Enclosed find $_____ (check, currency or money order). Please ship my order, postpaid, at once. I have attached list of plants desired to this coupon. ☐ Send FREE Catalog.

Name ..... (Please Print)

Address .....

City ..... Zone ..... State .....

NAUGHTON FARMS, INC.

The Nation's Nursery • WAXAHACHIE, TEXAS

FLEISCHMANN'S Dry Yeast— no need to keep it in the ice box

Menfolks have a hankering for fancy bread? Now—with Fleischmann's Fast Rising Dry Yeast you can bake it in "hurry-up" time . . . any time! It's always there when you need it—stays fresh in the cupboard for weeks. IF YOU BAKE AT HOME—dissolve according to directions. Then use as fresh yeast. Get Fleischmann's Fast Rising Dry Yeast today. At your grocer's.

Keeps in the cupboard

SPEED-EE
The All-Purpose Protective
COVER

Moth and dust proof storage for furs, woolens, etc.

Protects You . . . Your Furs, Woolens, Blankets, Clothing, Furniture, Shrubs, Equipment

Completely protects you, and baby in his cart.

This amazing all-purpose cover provides moth-and-dust-proof storage for blankets, furs, wearing apparel, draperies, etc. It protects you against cold and rain better than an umbrella or rain coat. It's a splendid moisture and dust-proof covering for your washing machine, furniture, equipment, etc. May be used by every member of the family, over and over again. It's light, roomy, compact; folds into its own special envelope when not in use. Can be carried in pocket, bag, or glove compartment of your car. Max Lewison, 2322 S. Michigan Ave., Chicago 16, Ill. (Distributors wanted)

Protection for blankets, wearing apparel, draperies.

Order Your SPEED-EE Covers Today
TWO FOR $1, Postage Included
Your Satisfaction Guaranteed

Splendid for covering your washing machine or stored furniture.

USE THIS COUPON NOW!

MAX LEWISON
2322 S. Michigan Ave., Chicago 16, Ill.

Please send me _____ Speed-EE Covers at the special price of TWO FOR $1.00, including postage.

☐ I am enclosing $_____ herewith.
☐ Send C.O.D.; I will pay postman, plus C.O.D. Charges.

Name _____
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City _____ State _____

Please print clearly with pencil

MORE THAN JUST A LAWNMOWER!
IT CUTS! IT TRIMS!

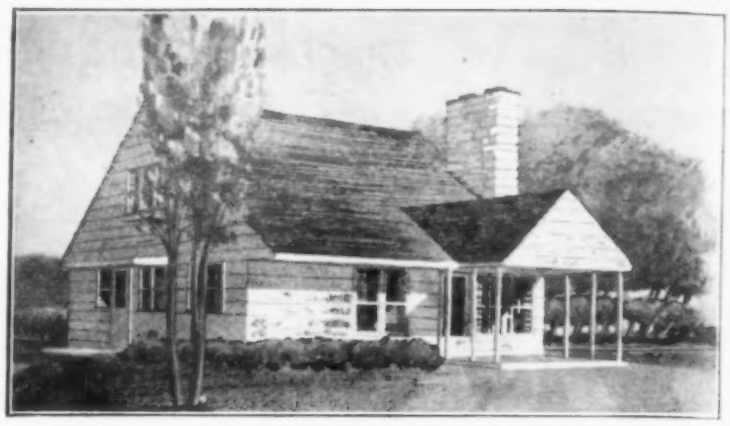
New **CLIPPER** LAWN MOWER

STURDY
SAFE
FLEXIBLE
SIMPLE

NOTHING TO GET OUT OF ORDER

Saves time and labor cutting your yard. Licks Bush plantain, weeds, crab grass and dandelions. Eliminates use of scythes, sickles, shears, whips. See your dealer today. Or write Dept. C

LAWNCRAFT MFG. CORP.
ARCADE BLDG. ST. LOUIS 1, MO.



Side entrance makes this house both practical and attractive.

Now We Have Plans

Many Folks Seem to Like Our New Two-Story Farm House

WE NOW have the plans and specifications for two houses that were planned by and for farm people. We have taken the suggestions from hundreds of farm women and incorporated them into these houses.

The two-story house is our newest one, and we know that a lot of folks are going to like it, too. It really isn't a two-story house—it's a story and a half—but the dormer gives the upstairs light and ventilation that ordinarily go with a two-story house.

This house has the side entrance on the driveway that folks will really use. And that was one of the things that our farm women who wrote to us stressed particularly.

It has an entrance hall with closet space for coats and hats and galoshes for the family as well as guests. This hall leads directly into the living room.

The kitchen is located centrally so that it is close to the rest of the house. It is large enough to have plenty of counter space, cupboards, and enough space left for family dining.

That is an important "must" for a farm home. I can't recall one letter which indicated that they did not ever want to eat in the kitchen.

Notice the large downstairs bedroom. It's big enough to serve as an office or a sewing room. And if the family is small, it is large enough to serve until the upstairs can be finished off. The bathroom downstairs is conveniently located both for the bedroom and for the back door.

One of the things that the women wanted most was a place downstairs for the men to wash when they came in from the fields. That is why the bathroom is located where it is.

We think that you'll like the living room. It is large and airy. It has good, big windows. And the fireplace is located so that furniture can be grouped around it and it will not interfere with the dining room space at the other end.

Or the whole room can be opened up for entertaining a larger group. The porch at one end of the living room is optional. Or it can be added later when money and materials are more plentiful. But it does add to the comfort of the house.

The utility room is close to the back door and to the kitchen. Good windows look out over the barnyard and the fields. It has storage space for larger equipment which is not used all of the time.

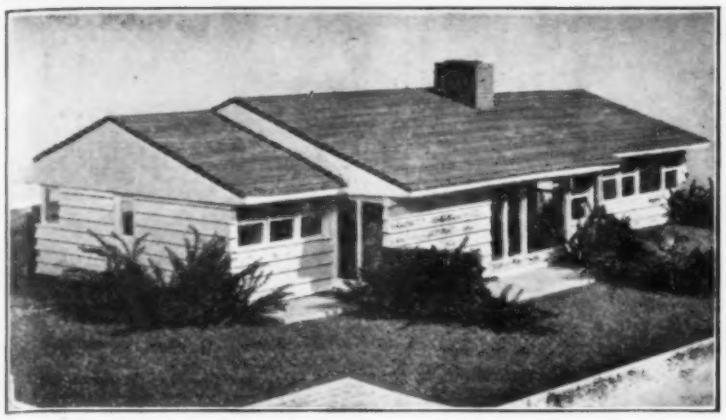
There's room for a laundry center, counter space for canning, preparing vegetables and doing all sorts of odd jobs that help to keep the kitchen orderly and clean.

The upstairs is finished up with two good-sized bedrooms and a complete bathroom. There is plenty of storage space under the sloping eaves of the house to take the place of an attic. Full-length doors open into this space from the hallway.

There is a large storage closet in each bedroom, including the one downstairs. And the bathroom is light and well ventilated.

There is little space wasted in

First floor plans for the two-story house.



This house also has side entrance that people will really use.

For Two Farm Homes

Orders Are Still Coming in For the One-Story Farm House

hallways either up or down stairs. Every spare foot of space is utilized for the convenience of those who will live in this house.

The outside is attractive, and yet it is simple and direct and will fit into almost any location. Theoretically, the house is now placed so that the highway is on the front or south of the house, the driveway swings past the entrance and on past the kitchen and the utility room.

The rear door opens up to the north. But this could be shifted to suit almost any direction.

The basement is planned for service, too. There is a furnace and a fuel room. The plans provide for a specially insulated cold room for storage of fruit and vegetables.

There's an "L" shaped area that can be used as a playroom for children, for storage, work shop, drying room or other use that may be needed.

We haven't said anything about the plans for our one-story house for quite a while. But now that we have plans for the two-story house under way, it gives us a good excuse to go back and review the good points of the first set of plans that we presented to you.

We planned this particular house for you because so many of our readers had said they wanted a one-story house.

Many of the older women said they had spent years climbing up and down stairs. (They meant, of course, that if all of the time they had spent going up and down the stairs were added together, it might run into years.) At any rate, they were tired of it.

Younger mothers with little children liked the idea of everything on one floor. It made life easier, even tho it does cost more when building a house to spread out rather than to go up to a second floor.

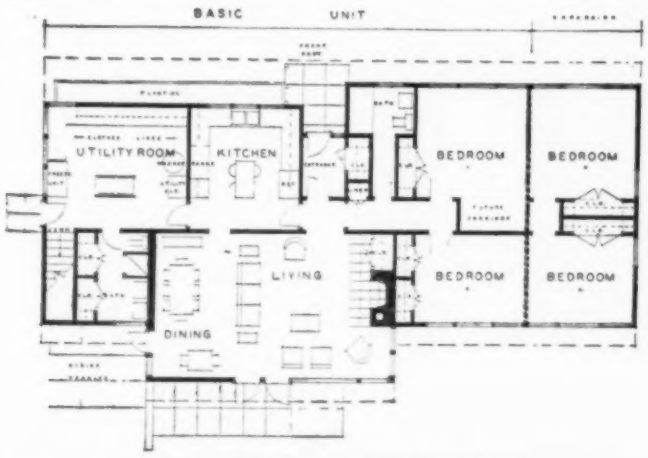
I'll admit we had some criticism when we presented this house. One woman wrote in to say that the architect must have been raised in the Pentagon Building.

But, for the most part, the one-story house seemed to satisfy a great many people. For we have had to order a second printing of our plans, and we know that building has hardly made a start yet.

This house was planned so that it would take care of a small family at first and could be enlarged as the family grew. Or it can be a four-bedroom house from the start. The plans are flexible in a great many ways.

We tried to have all the "musts" incorporated into this house. We have pointed out these "musts" a great many times. They include a centralized kitchen, a utility room, wash-up room for the men, side-entrance combination living room and dining room.

Plans and specifications for either house sell for ONE DOLLAR. If interested, you can write to the Home Building Service of Wallaces' Farmer and Iowa Homestead, at Des Moines, Iowa. Send us your dollar and we will send you either plan.



Floor plans for the one-story farm house.

PLEASE ACCEPT 15¢

ON THE PURCHASE OF ANY BAG OF

Robin Hood Flour

This Offer is made solely to get you to try ROBIN HOOD FLOUR and discover for yourself what marvelous bread, cakes and pastry it makes

Now! An All-Purpose Flour That's Blended as Carefully as the Finest Cake Flour

We want you to try Robin Hood Flour because we know that once you've tried Robin Hood, you'll never want to use any other flour for all your baking. Just take the coupon below to your grocer, and he will accept it as part payment—at a value of 15c on the purchase of any bag of Robin Hood Flour.

Robin Hood is an all-purpose flour but it's blended just as carefully as the finest cake flour. Yet Robin Hood doesn't cost you a cent extra—no more than other leading all-purpose flour.

Fill in the coupon below and take it to your dealer. He will allow you 15c toward the purchase of any bag of Robin Hood Flour at the usual price. But act quickly, because this offer expires May 15, 1947.

THIS COUPON IS WORTH 15¢ ON THE PURCHASE OF ANY BAG OF ROBIN HOOD FLOUR

15¢ **ROBIN HOOD FLOUR** 15¢

Sign this coupon. Take it to your grocer. It has a value of 15c when applied toward the purchase of any bag of Robin Hood Flour.

Date.....

Name.....

Address.....

Town.....*State*.....

Mr. Grocer: We will pay you 15c in cash for each coupon redeemed in accordance with the above terms. The coupons you redeem will be accepted by your Robin Hood salesman for payment; or you may mail them direct to International Milling Company, Minneapolis, Minn.

Only One Coupon To A Customer • *This Offer Expires May 15, 1947*

Dealers are expected to turn in all coupons within 60 days following expiration of offer

INTERNATIONAL MILLING COMPANY, MINNEAPOLIS, MINN.

Perennials Are "Tops"

AS WE plan our garden year after year, we find there are certain perennials to which we become very much attached. They form the backbone of our garden, around which we place the newer things. Each gardener has his own favorites, because tastes vary.

Timber phlox (phlox divaricata) is a native that brings masses of lavender to the spring garden. I let its seedlings settle down wherever they take a notion to add their loveliness.

If plants advance beyond desirable limits, it is not difficult to make them happy elsewhere. The patch of pure white I count a real treasure.

The lovely bell-like blossoms of this peachleaf campanula are beautiful in a garden as well as a vase.

The campanulas can boast of several fine perennial members, but if I had to limit my choice to just one, "tops" as far as I am concerned would be the peachleaf campanula. With sufficient moisture it easily reaches a height of two and one-half to three feet. The blooming period is quite extended.

The bell-shaped blossoms are lovely in the border as well as in vases. It is difficult to decide if one prefers the blue colors or the pure white, but why try to choose between them?

The balloon flower (platycodon) is a cousin of the campanula and a little easier to please. At least, it appears more dependable. It does like to take an extra "40 winks" in the spring.

One is apt to hoe off its crown of leaves while they're still yawning under the covers and other plants are fully dressed and ready for the work assigned them.

The roots are thick and fleshy, and once a plant is established, it is better not to try to move it. Young plants may be moved quite easily. It blooms in July, when most flowering plants are on vacation.

There are a number of different kinds of baby's breath, but my first choice is Gypsophila Bristol Fairy. Its tiny, double blossoms are so snowy white and airy.

One plant makes a large bush, and its white laciness adds freshness and lightness to any border, to say nothing of its stems for bouquet fillers. It will have at least two good periods of bloom.

When we think of clematis, we think of vines, but there is a bush form, clematis recta, which I like even better than any of the vine forms. It needs staking, for the heavy wealth of white blossoms will be too much of a load for the slender three to four-foot branches to support alone.

If not allowed to make seeds, it will continue to bloom, but perhaps you will decide its clusters of seeds, each gaily waving a little feathery tail, are as attractive as its blossoms.

Delphiniums are not as long-lived as iris or peonies, but I am glad to plant seeds to replace those that pass on, to spray for various plant pests and diseases, and to give them extra attention to make them happy and comfortable.

There are varieties like Belladonna and Bellamosum that are fairly persistent. Then I must have the Giant Pacific hybrids, with their gorgeous big blossoms. The pure white are lovely.

The white with black bee or deep purple with white bee attract the attention of everyone.

There are many shades of blue to pinkish lavender, making it hard to say which is one's favorite delphinium color. Plant seeds and you won't mind the loss of plants so much.

Yes, a Refinite makes all farm washing easier . . . your dishes sparkle, milk pails wash faster and laundry comes out whiter than ever before. Wonderful for shampooing hair and bathing. The Refinite Water Softener is a home appliance which attaches to your plumbing and produces soft, filtered, iron-free water from every faucet for all farm home needs. A Refinite saves money because it cuts soap requirements and preserves fabrics.

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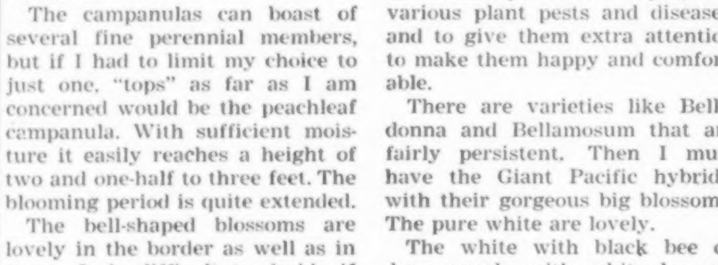

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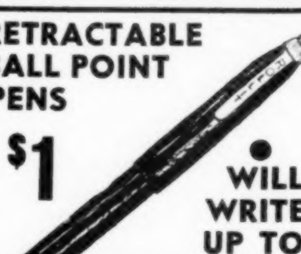

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COOKERY CORNER

Banana Butterscotch Pie

- ¾ cup of firmly packed brown sugar
- 5 tablespoons of flour
- ½ teaspoon of salt
- 2 cups of milk
- 2 egg yolks, slightly beaten
- 2 tablespoons of butter
- ½ teaspoon of vanilla extract
- 3 ripe bananas
- 1 baked nine-inch pie shell

Combine sugar, flour and salt in top of double boiler. Add milk, slowly mixing thoroly. Cook over rapidly boiling water until well thickened, stirring it constantly. Cook 10 minutes longer, stirring occasionally. Stir small amount of hot mixture into egg yolks, then pour back into remaining hot mixture while beating vigorously, and cook one minute longer. Remove from heat and add butter and vanilla. Cool. Peel and slice bananas into pie shell and cover immediately with filling. Garnish with ripe banana slices just before it is served. Simply delicious! Be sure the filling is thickened before beginning to count the 10-minute time given for cooking time. Use either light or dark brown sugar; the dark sugar gives a richer flavor.—Mrs. Alvo Crawford, Thomas County, Nebraska.

Apple-Peanut Crumble

- 6 medium cooking apples
- ½ cup of sugar
- ½ cup of flour
- ¼ teaspoon of salt
- 2 tablespoons of peanut butter
- 3 tablespoons of butter

Peel apples and slice into a shallow, buttered baking dish. Combine the sugar, flour and salt. Cut in the peanut butter and the butter until crumbly. Sprinkle crumb mixture evenly over top of apples. Bake in a 375-degree oven for 30 minutes, or until a golden brown. Serve with cream. Enough for six.

Salmon Souffle

- 2 tablespoons of butter
- 2 tablespoons of flour
- ¼ teaspoon of salt
- ¼ teaspoon of pepper
- 1½ cups of hot milk
- 3 egg yolks, beaten
- 1 tablespoon of grated onion
- 1 tablespoon of minced parsley
- 1 pound can of salmon or two cups cooked and flaked
- ½ cup of mayonnaise
- 3 egg whites, stiffly beaten

Melt butter in top of double boiler. Stir and blend in flour, salt and pepper. Add hot milk all at once, stirring constantly until smoothly thickened. Remove from heat. Stir in beaten egg yolks, parsley, onion, salmon and mayonnaise. Fold in stiffly beaten egg whites. Turn into a buttered two-quare casserole. Bake in a 370-degree oven for 35 minutes, or until inserted knife comes out clean. Serves four to six. — Mrs. Ruth Lienen, Iowa County, Iowa.

Deep-Dish Spring Rhubarb Pie

- 6 cups of rhubarb
- ¾ cup of granulated sugar
- 6 tablespoons of flour
- 1 tablespoon of butter
- ⅔ cup of light or dark corn syrup

Combine sugar and flour, mix with rhubarb (cut into half-inch pieces) and arrange in a shallow nine-inch, round baking dish. Add syrup and dot with butter. Roll pastry one-eighth inch thick and two inches larger than diameter of baking dish. Gash to permit the escape of steam. Place on top of rhubarb, trim pastry at edge and flute. Bake in a 425-degree oven for 20 minutes and then in a 350-degree oven for one hour. Serves six.

Flaky Pastry—

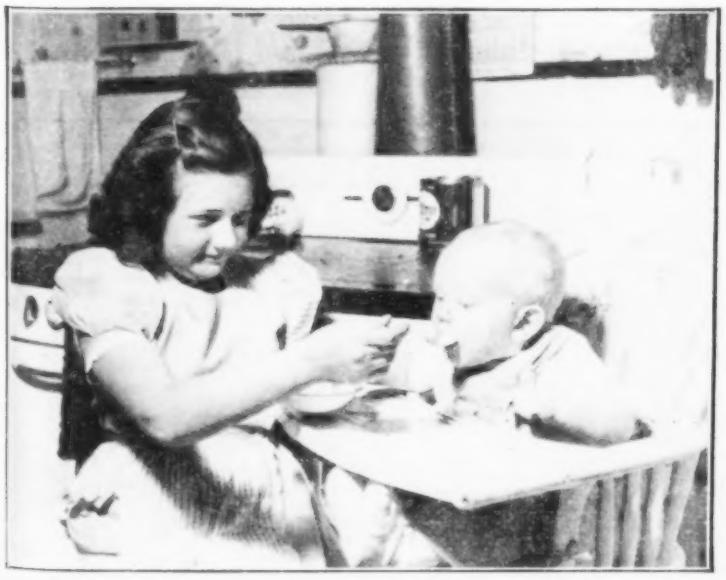
- 1 cup of sifted all-purpose flour
- ½ teaspoon of salt
- 6 tablespoons of shortening
- 2 to 3 tablespoons of water

Sift together the flour and salt. Cut in shortening with a pastry blender or two knives until particles are size of small peas. Add water, working lightly with a fork until all particles are moistened and pastry forms a ball on end of fork. Roll out to fit deep-pie dish. Cover rhubarb and bake as directed above.

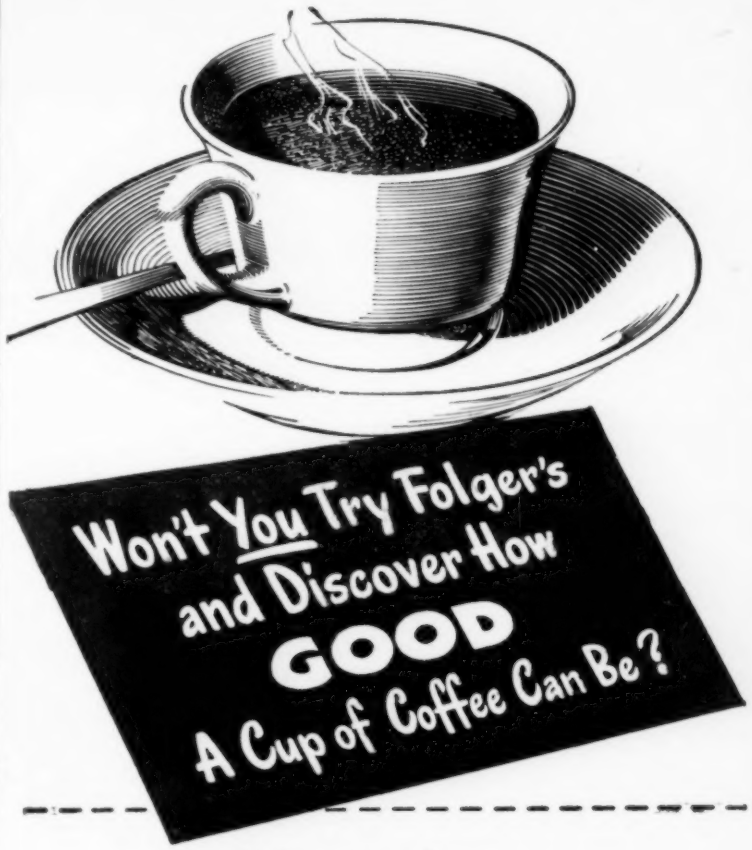
Prune-Whip Tarts

- 1 two-crust pastry recipe
- 1 cup cooked, drained, cut prunes
- ¼ cup of sugar
- 2 teaspoons of lemon juice
- 2 egg whites, stiffly beaten
- 3 tablespoons of sugar

Prepare a two-crust pastry recipe. Roll as for a pie shell, cut with four and one-half inch round cutter and fit over backs of muffin pans. Prick with fork and bake in a 450-degree oven for 10 minutes. Combine prunes, sugar and lemon juice. Add gradually three tablespoons of sugar to stiffly beaten egg whites. Fold into the prune pulp mixture. Makes 12 tarts.



Connie Grow does a nice job of feeding her little brother. They are the children of Mr. and Mrs. Darwin Grow, of Greene county, Iowa.



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Mirage on Main Street

● A recent survey of public opinion indicated that lots of folks have been "seeing" a mirage of railroad profits that weren't there.

Most people thought that 10% would be a fair profit for railroads—nine out of ten said 6% *or more* would be fair. But the fact is that the railroads don't come out anywhere near that well.

In the years since 1938—four of them war years of tremendous traffic—the railroads earned an average of only 4% per year on their net investment in tracks, cars, engines, shops, stations and all the things it takes to produce the rail service which the nation needs.

In 1946—with wages and prices of material and fuel up more than 50% above prewar levels—railroads still hauled freight at prewar rates. Even with a slight increase in rates during the latter half of the year, their earnings on net investment dropped to an average of only 2¾%. Some railroads earned more, but others showed no profit at all—were, indeed, in the red for the year of the heaviest peacetime traffic in history.

At the end of 1946, the Interstate Commerce Commission authorized higher freight rates to become effective in 1947. These increases will help the railroads to meet their rising costs, and will give them a better chance to improve their equipment, roadways, and other facilities—improvements necessary for continually better service to the public.

But even with these increases, in 1947 railroads as a whole will probably average little more than 3% on their investments—just about half the 6% which is as little as anyone would consider a fair profit.

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By ELIZABETH C. WHERRY

WE TALK a lot about Lost Generations. They may be any one from children who roam the rubble of Europe to the benighted generations who grew up without benefit of juke boxes and good music via radio.

My nomination for the Lost Generation is the one who never learned to read. Members of that generation seem more or less displaced as to the time element.

They range all the way from those who never had phonics to those who don't know how to get the meat out of a newspaper, which last covers me.

Without phonics, what can boys or girls use for a crutch when they come upon a word new to their experience?

There are times when I think that art, science, geography and history—maybe even music and physical training (p. t. is limited to only a few, anyway)—should not be allowed in the schools till the seventh or eighth grade.

Let every effort be directed toward words, letters (and their order in words — spelling to you, dear), paragraphs, pages and the things the words on the pages are talking about. Let this be the main and major effort for the first six years.

Maybe by the time a pupil has reached the seventh or eighth grade he will be able to absorb geography, history, sciences and other subjects as such, because he has mastered the tools of learning.

Along with this, of course, should go the time-tables, number complications and drill, drill, drill in multiplication and division. (I should ask the printer to set this up in capitals.)

I'd institute "dunce caps" again—not for those who do not know, but for those who will not work.

Why don't pupils know basic things? There are hundreds of answers—as many as there are people who think about it.

Some of the trouble comes from the universities, which now and then bring forth some new and lovely and startling and dramatic road to learning that throws all other methods (as well as common sense) out the window.

My young Belgian friend, in her first year of high school, takes algebra, geometry ("the third book"), four languages — Dutch, English, French and German, "bookholding" (as good a translation as bookkeeping — to my notion), geology, geography and history. Just now she is studying "The Secession War in the United States of America."

Besides this, she carries on with a rigid gymnastic course which merely includes basketball—not is basketball—and stood second in a large class last year. The gist of the story may lie in one sentence of her father's letter: "She is still three years from the university, but she is studying late at night."

What, no movies, no skating parties, no dancing at the hangout, no milkshakes over at Jake's? Some, yes, but not every night. Home work? My dear!

Some of the most dramatic stories I've ever listened to were the ones I heard when my country school teacher told the beginners about the goose that said "th."

There was a snake that said "s," a train that said "ch-ch," the kitten that said "f," the boy that said "h-h" when he ran uphill.

There were the "at" and the "and" families and the occasional long word she slipped in, like "squirrel" or "grandfather." You remembered those because they looked so different.

What method? Oh, I don't know. She seemed to use different ones for different pupils. Fancy that!

Oh, well—— That is all pretty screwy. Probably would not work. I'm glad I don't have to decide. I'm glad I don't have to decide anything these days.

Let's go rake the yard. Maybe we can sit on the back steps for a while and grumble about the late spring.

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Nothing tastes better to a hungry boy than freshly baked kolatches. Mrs. William Neber, of Ida county, Iowa, offers some to her son.

Inherited Recipes

IOWA, like most other states, is made up of a great many different nationalities. There are Germans, Irish, Scandinavians, Russians, Czechs, English, etc.

Many of these families have been in this country for generations. Meals are more or less standardized for all of us. That is, we all buy more or less the same things when we go to market.

But in many families there are some wonderful old recipes which have been brought from the old countries and handed down simply because they were unusually good and have stood the test of time.

Mrs. Ralph Obermire, Plymouth county, Iowa, follows this old English plum pudding recipe. The only change she has made is that she no longer boils the batter in a sack in a kettle of water. She now puts it in a baking dish and steams it.

Old English Plum Pudding

1 cup of chopped suet, not packed
1 pound of seeded raisins
1 cup of chopped nutmeats
1 cup of sugar
¼ cup of butter
4 eggs, well beaten
1 cup of sweet milk
1 teaspoon of combination baking powder
Add flour to make a stiff batter (about 2½ cups)

Here is another interesting dessert recipe that comes from the files of Mrs. Wm. S. Handy, of Ida county. This is originally a German recipe.

Buttermilk Pudding

¾ quart of buttermilk (freshly soured)
¾ pound of sugar
Juice and rind of one lemon (grate the rind)
4 tablespoons of plain and unflavored gelatin

Soak the gelatin in cold water, so that when heated it will flow freely. Dissolve sugar and buttermilk. Add lemon. Have mixture not too cold. Add gelatin mix. Stir constantly. If gelatin strains out, heat just enough to dissolve. Add fruit coloring. Chill. Add fruit as desired.

This can be served with a vanilla sauce or whipped cream. It can be poured over macaroons and chilled, or can be decorated with chocolate chips.

Mrs. Fred Gebers, of Ida county, has an apple stuffing for roast goose or duck, which sounds good.

Apple Stuffing for Ducks

Only three slices of bread for two ducks. Slice raw apples to fill the balance of the cavity. Dash of salt and pepper and a half cup of sugar. Mix up and stuff two ducks. Bake or roast, basting occasionally and pouring off the fat as it cooks out of the fowl. It's delicious and makes a golden gravy.

Another stuffing for fowls is from Mrs. Martin Muecke, Plymouth county. This is also a German recipe.

Fruit Stuffing for Fowls

Stuff a duck or goose with half bread and half dried fruit. Apples and prunes are first choice. Add two eggs, well beaten, and salt and pepper. Add about one-fourth cup of sugar for each fowl. Stuff.

There are many recipes for old country breads that are still popular in Iowa. Mrs. Joe Miltner, of Johnson county, contributes this one:

Bohemian Kolatches

1 pint of milk, scalded
2 well-beaten eggs
½ cup of shortening
½ cup of sugar
1 cake or package of quick-acting yeast, started in a little sweetened water
Salt
1 tablespoon of lard
6 cups of flour

Put all of the ingredients together and beat well. Put dough in a greased pan to rise until double in bulk. Knead down once. Next time it rises, mold the biscuits. When they get light, flatten them out and put prune mixture on top —or any other fruit mixture. Poppy seed that has been ground and cooked in sweetened milk will also make a good topping. Let rise again. Bake in a moderate oven.

Kolatch topping is made of ground prunes, no juice, with a little sugar, lemon, cinnamon or other flavoring. Put on biscuits; sprinkle with coconut or nutmeats.

Coffee Cake Delicious

This is a recipe made by a Russian family in western Nebraska. Pinch and fit a layer of sweet bread dough into a flat pan. Cover it with cherries or other fruit. Mix one cup of sour cream, one-half cup of flour, one cup of sugar and a pinch of salt, and pour over the dough and fruit. Bake.

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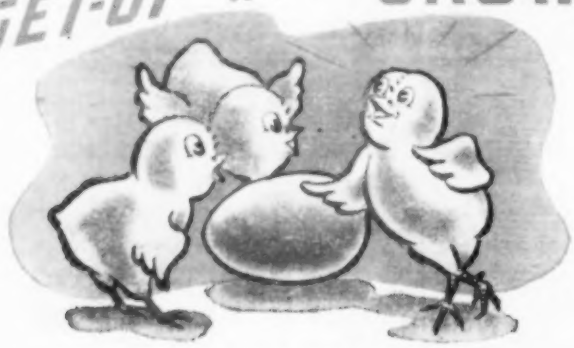

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THE FARM FLOCK

Young Birds nearing size to put on range are debeaked before they go on grass. Handling debeakers are Bill Davis and Claude Anderson, of Boone county, Iowa, as Quentin Riker looks on.

Keep Chicks Healthy

Ground Around Brooder Must Be Clean

WE HEAR a great deal about clean range for baby chicks. Naturally, this is to be desired. But it is not always practical or even possible, especially where acreage is small.

How are you going to move the brooder houses to clean ground each year if you use electric brooders? We have found that it is not easy to rewire houses. This has been especially true during the past few years.

Our three brooder houses were spaced and wired two years ago. And we have not seen any practical way to move them to entirely new ground and hook them up to the high line.

So we have concentrated on keeping the ground clean. It may be timely to tell you some of our methods for doing this.

We use deep litter and do not clean the houses as often as we used to. When we do clean, we are very careful to keep litter off the ground. We use a tub or basket and empty it carefully into the spreader.

We use narrow strips across the doorways to keep the litter from working out onto the ground.

Then, believe it or not, we cut all the grass around the brooder houses with a lawn mower. Contrary to expectations, chicks don't eat down and kill out the grass.

Of course, there is a large area for them to enjoy. We mow right up to the doors, and there is new green grass growing all the time.

We use poultry netting around the edge of each brooder house, so that the chicks can not get in under the houses. The sun never shines in under there, and the ground would be polluted.

We also move our feeders and waterers frequently. I mean the ones that are out-of-doors on nice days. When the weather is hot, I even shift them to the shady side of the house at noon.

We sell our old flock early in the summer. Then we get the laying house as clean as modern methods can make it before the pullets are moved in.

We can turn our chickens out north or south of the laying house, and we alternate years on the ranges there. This year, no old hens will be north of the laying house. That will give clean fall range for the pullets.

We have had chickens on the chick range for four years now. And the past two years the houses have not been moved from their present location. We will use them again this spring.

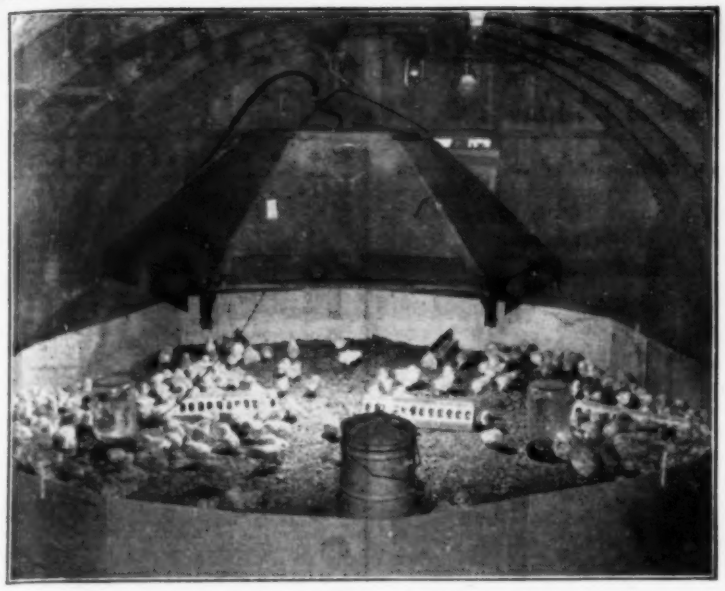
Watch carefully for any symptoms of Newcastle disease this year. It has made quite an alarming spread during the past year. At last reports, this disease had been found in 19 states, including Iowa.

Newcastle is highly infectious, and attacks poultry of all ages. A laying flock may recover. But I believe if I knew that my young chicks had it, I would be tempted to destroy the flock.

Most of us are not familiar with the symptoms of Newcastle disease. It starts in the respiratory organs. Difficulty in breathing generally is the first noticeable symptom. This is followed by nervous symptoms, such as trembling and jerking of the head.

Newcastle disease is hard to diagnose—a laboratory study is necessary. If you suspect its presence, the best thing to do is take a chicken to a veterinarian.

A good way to prevent any disease in your flock is to curb your desire to "show off" your chicks. Discourage well-meaning visitors from entering the brooder house. Keep a clean pair of rubbers to put on every time you step inside the brooder house. And don't wear them anywhere else.—M. B., Jasper County, Iowa.



Brooder House cleaning is easy for Virgil Smith, Boone county, Iowa. Balancing weights are lowered to lift the brooder so pen can be cleaned. Note chick guard around the brooder.

Pullets Show Up Best

She Finds Keeping Old Hens Doesn't Pay

To the Editor: Until last year, we had always sold our old flock of laying hens and replaced them with pullets each year.

Because of ill-health, I did not raise many chickens last summer, so we kept our old hens over. Now I am more sold than ever on all-pullet flocks.

We gave the pullets every possible break. After housing them in October, we kept them separated from the old hens for a week so they'd have a better chance of holding their own against the older birds.

I have read in a number of articles that pullets lay 20 to 30 per cent more eggs a year than old hens. That's a lot of eggs, and has been a bit hard to believe. But our flock this winter has given us definite proof that it is true.

The pullets laid a lot of eggs during the fall and early winter. The old hens came into full production much later.

There has been a heavy expense in carrying the old hens thru two to four months of low production, or no production at all.

I find that it takes at least 25 pounds of feed to develop a pullet and about 20 pounds to carry a molting hen until she starts laying again.

This winter, too, we have had to fight colds in the flock occasionally. This very seldom happened in our all-pullet flocks. Evidently, the source of these colds went to market with the old hens.

Regardless of how careful one may be, there is always a chance that some disease carried by the old flock may be passed on to the pullets.—R. S.

Cull Once a Month To Save Feed

Culling is no good unless it is regular, say poultry specialists. The reason is that as soon as a hen quits laying, her feed bill must be paid by other laying hens. So the boarders cut down the total profits.

Feed costs will eat into profits if non-layers are permitted to stay on vacation. The cost of feed amounts to one-half the total cost of producing eggs.

To keep egg production up, your flock should be culled at least once a month.

Hens which have pale, scaly or shrunken combs, yellow beaks, dull and sunken eyes, snaky and narrow heads, and pelvic bones which are thick, firm, rigid and close together should be taken out of the flock.

Hens with large, red, waxy and full combs, bleached beaks, bright and prominent eyes, neat and refined heads, and pelvic bones that are thin and pliable and have a good spread, should be kept.

Danger Now From Coccidiosis

Nice weather for coccidiosis! Each year, with the coming of warm, damp weather, this dread disease shows up on many midwest farms.

There are medicines which help in controlling coccidiosis. But they can't entirely take the place of good care and sanitation. Much of the trouble can be avoided by keeping chicks out of droppings and seeing that litter is dry.

The new sulfa drugs are very effective in controlling coccidiosis. There also are commercial preparations for use in the drinking water.

But, no matter what medicine you use, good care and management must go along with it. Here are eight tips for preventing coccidiosis:

1. Keep chicks separate from older stock.
2. Use deep, absorbent litter.
3. Keep litter dry around feeders and waterers.
4. If possible, keep chicks indoors during damp, wet weather.
5. Allow chicks to range in good weather on good grass.
6. Use sulfa drugs or other commercial preventives at first signs of the disease.
7. Feed milk in some form during an attack.
8. Keep chicks warm during an attack.

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Goslings Need Shade

But They Chill Easily In Wet Weather

To the Editor: I've received a number of inquiries on my "Tips on Geese," in your March 1 issue. Raisers of geese seem still to have a few unanswered questions.

One woman says that when she turns small goslings out in the sun before they are three weeks old, they often die. She wonders if the trouble is caused by sun-stroke.

That might be it, but it's easy to tell when goslings are too warm. They get weak-kneed and wobble when they walk. Geese, young or old, must have shade to use when needed. I always keep the water in a cool, shady place. And if I notice that they seem too hot, I give them fresh, cool water.

When I let the goslings run with hens, I put only five or six with a hen. When they are young they are very clumsy. And they like to stretch their necks when sleeping.

If there are too many under the hen, she sometimes steps on a gosling's neck and smothers it. This problem, of course, could be solved by using a brooder.

When I set goose eggs under a goose, I give her 10 or 12 eggs, according to her size. I candle the eggs on the tenth day. Otherwise, they might get bad and burst.

If this happens, the straw has to be changed. And sometimes it is necessary to wash the underfeathers and breast of the goose. Not a very pleasant job. I prefer candling the eggs.

I also remove the first few goslings that hatch, leaving the newest one with the goose, so she won't leave the nest.

I pen the goslings away from the flock until they are two or three weeks old, especially those hatched under hens. I never turn young goslings out in a rain. They get sopping wet and chill easily, because their down doesn't turn water.

If the weather is merely damp, I let them out to eat grass for short lengths of time. When they begin to act cold, I pen them up until they are warm and dry.

I find it best to have no more than two geese to one gander. I have tried more, but the eggs did not hatch so well.

If you are interested in feathers, geese can be picked first when they are three months old. After that, they might just as well be picked at intervals of six weeks, because they will pick themselves anyway.

But don't pick the old geese during the laying season. And I always aim to allow at least a month between the last picking and marketing. Buyers want them full-feathered.—M. H., Davis County, Iowa.

Poultry Droppings Are Good Fertilizer

Don't overlook the value of poultry droppings as fertilizer. If you own a farm, or even an acreage, you can make good use of the manure.

Droppings are especially valuable for flowers, and they make a wonderful fertilizer for blue grass lawns.

Most vegetable gardens will be greatly improved by using poultry manure. Besides increasing fertility, it adds to the water-holding capacity and improves the physical condition of the soil.

The manure should not be fresh, but well rotted. The plant food in fresh manure is not readily available to plants, and weed seeds are more likely to be killed in well-rotted manure.

Apply poultry droppings at the rate of about five to ten tons per acre on gardens. The manure can be applied before plowing, or finer manure can be applied in the spring as a top dressing.—B. P., Holt County, Nebraska.

PAW TUCKER—Evidently Paw's Lost That Fisherman's "Instinct"

HELP! or I'LL DIE!
COCCIDIOSIS
CHOLERA-TYPHOID
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2 Use D.R.D. (Concentrate)—Better to prevent Coccidiosis than to have to treat it. Give your chicks Dr. Jespersen's famous D.R.D. CONCENTRATE in their drinking water for the first 10 days to help prevent and treat Coccidiosis. Thousands use it every year. PRICES: 300 chick size, $1.50; 600—$2.75; 1200—$5.25; 2400—$9.75.
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Chicks need clean water to stay healthy. Whatever kind of fountains you use, clean and refill them with fresh water often.

Sarah Jane Says:

Back "Home" Again

To the Editor: Moving back to Iowa has been quite an experience.

The trucks hauling our worldly possessions got quite a start ahead of us—we kept finding necessary things to pack into the car.

Then it snowed and was icy and foggy. So it took all night. Even so, we would have reached "the place" by 7:30 a. m., but we had a flat tire—had to get a new tire and tube.

So the trucks were almost unloaded when we got there. The cows were dripping milk and were quite unhappy—so many skinned spots, and bruises, too.

The little calf seemed none the worse off, and the horses seemed all right, also.

The household goods have more scratches now, of course.

I had to sell my hens because there was no place to put them. They were laying well, and I hated to get rid of them. They were bought by a man from Iowa.

Mr. G. has gone with the trucker after the machinery and odds and ends. There are garden tools, my chicken fountains, the hen house sprayer and so on, ad infinitum.

The heavy part of the cream separator still is to come. I brought the tank and spouts with me. We have two 10-gallon cans to use, and I have every large container full of milk, and some that are not so large.

I have been skimming off the heavy cream into one can, and I hope the mud will dry up so I can go to town soon.

We are a mile and a quarter off the rock road. The mail route goes by the house, but when the mud is very bad the mailman turns around at the corner.

A new electric line is being built past the house. But we probably can't afford to get the house wired just yet. (I feel like I could afford to do it myself rather than fill lamps and wash flues.)

We have to set the radio aside and get out the old battery set. We haven't bought batteries yet, so I am wondering what is going on in the world.

I'm still planning to get started chicks about June 1.—Sarah Jane, Clarke County, Iowa.

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Tomatoes Easy To Grow In Garden

They Also Taste Good, Says Gardener, and Provide a Good Substitute for Citrus Fruits

LET'S talk about tomatoes, the most popular of all vegetables according to polls and surveys.

Most people relish tomatoes, and they are easy to grow. So it naturally follows that gardeners everywhere grow tomatoes with pretty good success. Tomatoes have few pests or plant enemies.

Tomatoes have rare food value as well as palatability that pleases everyone. They are the easy-to-grow substitute for citrus fruits.

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The Orange King is another golden-colored, mild-flavored tomato especially valuable for its earliness and good quality. It does not bother to grow much vine, so gets its fruit ready to use in a hurry. It also produces orange-colored juice.

Of the red, mid-season varieties, take your choice of Rutger's Pritchard and Marglobe. Both are wilt-resistant.

We prefer the last named for its solid flesh, round shape, firmness and rather mild flavor.

Next to tomatoes, sweet corn would be voted a close second for popularity. And why not? Seed corn breeders have actually performed miracles in recent years, producing hybrid sweet corns that yield abundantly, stand up well, and have high quality.

When such steaming-hot roasting ears reach the dinner table not more than two hours from the garden, they are a genuine luxury fit for a king.

And what a disappointment those same roasting ears would be if picked on a hot day and handled carelessly, finally reaching the customer in a half-wilted condition!

Home gardening is the answer. For small gardens, three or four kinds of hybrid sweet corn, from early to late, selected by your local seedsman, will supply your table with roasting ears at their very best for several weeks.

Early tomato plants can be spaced every two feet in rows three and one-half or four feet apart. The larger growing, mid-season and late varieties should have four feet of space both ways.

Later sorts can be staked if space is at a premium. They will probably not yield more fruit per plant, but may easily produce more fruit on a small plot of ground.

Just before the fruits begin to turn color, it is a good plan to lift up the vines and push a generous amount of hay, straw or weeds under the plants, to prevent the fruit being damaged by contact with the damp earth.

It usually pays to rush the season with first plantings of both tomatoes and sweet corn. If the weather and soil are favorable, late April planting of a very early kind of sweet corn may easily produce roasting ears two weeks earlier than if planting is delayed until the conventional date.

Good, sturdy tomato plants should be nearly ready to blossom when the weather permits planting in the open.

It pays to take a chance on extending the season for these fine-quality, garden-fresh and vitamin-filled delicious vegetables that actually reduce the high cost of good groceries.—Victor Felter, Warren County, Iowa.

HIRED HAND HARLEY — Better Spray Next Time, Harley

Puts the KICK IN CHICK RATIONS

Keep 'em Toned Up, Growing Fast

Here's fast-acting first aid for run-down, sluggish birds. • Tonics, minerals, plus important vitamins of B complex to pep them up, speed up gains. • Easy to feed—in granular form, with moist or dry mash, and chicks really go for it! • Economical, just a little does the job.

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3A Grade			
Wh. and Bd. Rocks...	$ 9.75	$13.75	$ 9.75
Reds—4A Grade	11.25	15.75	11.25
4A Grade New Hampshires, White Wyandottes, Austra-Whites, Buff Minorcas	11.25	15.75	9.75
White Leghorns			
3A Grade	9.75	16.75	3.25
4A Grade	11.25	18.75	4.95
Heavy Assorted			
3A and 4A Grade.....	6.90	10.75	6.90

If money is sent in full with order $1.00 per hundred discount. Order direct from this ad. All orders prepaid if chicks are paid for before shipping date. Address

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White, Brown Leghorns, White, Barred Rocks, Buff Orp., Wyandottes, New Hampshires, Giants, Buff Minorcas, Reds, Austra-Whites — PER 100 $12.90 Prepaid. 100% Live Delivery Guaranteed

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GRACE HATCHERY, Box WF, Chillicothe, Mo.

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ROCKS . . . R. I. REDS
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WYANDOTTES
MINORCAS — $9.90 Per 100 Prepaid
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White, Brown, Buff Leghorns, Anconas, Rocks, Wyandottes, N. H. Reds, Orpingtons, $11.90. Also sexed chicks. AAA Matings, 2c per chick higher. Started Leghorn Pullets. Get complete prices. Heavy Assorted, $7.95. Light Asstd., $6.95. Leghorn Cockerels, $1.95. Collect.

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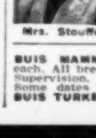
LUX LEGHORN LAND FARMS, Hopkinton, Ia.

STOUFFER'S FAMOUS CHICKS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We ship on dates promised, prepaid. White Leghorns, Barred, White Rocks, Austra-Whites, $11.90; Reds, Orp., N. H. Reds, $12.90. $13.90. Heavies, our choice, Layers and Roasters, $7.95. assortment, $2.95. Leghorn cockerels, $1.95. Free. Also pullets and cockerels. our prices on 3 to 4-week-old White Leghorn pullets.
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BUIS MAMMOTH BRONZE TURKEY POULTS at 85c each. All breeders TUBE TESTED under Minnesota State Supervision. WESTERN NORBEST POULTS at 85c each. Some dates already sold out. BOOK YOURS TODAY. BUIS TURKEY HATCHERY ST. JAMES, MINN.

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★ Please rush me without obligation full information on how I can use one or more of your $21.95 Brooders free.
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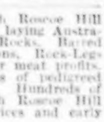
HEIMAN'S USROP CERTIFIED LEGHORNS



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BIG PROFITS this year with Roscoe Hill Chicks. Heavy laying Austra-Whites, White Leghorns, White Rocks, Barred Rocks, Reds, Wyandottes, Orpingtons, Rock-Legs give you choice of breeds for eggs or meat profits. Flocks improved by use of hundreds of pedigreed males—from 200 to 311 egg hens. Hundreds of customers testify to big profits with Roscoe Hill chicks. Write for New Catalog, prices and early order discount.
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NEW MODEL HANDSET WALL TELEPHONES FOR FARM LINES. Prompt delivery by parcel post. Write:
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UNIVERSAL-WAY Post Hole Digger

EFFICIENT AND ECONOMICAL

The UNIVERSAL-WAY post hole digger is a force-feed digger operated by one man. It is easy to mount on any standard tractor and due to its tilting mechanism, the tractor can be used for other farm work while digger is still mounted.

The UNIVERSAL-WAY digger can be used for tree-planting, drilling around stumps for dynamiting, digging tank foundation pits and repairing old fences as well as for digging post holes.

The UNIVERSAL-WAY digger can dig from 35 to 50 holes per hour in clay, sand, gravelly soil, or even through frost. Digs holes down to 48" depth and can be tilted to dig vertical holes regardless of terrain. An 8" auger is standard equipment but you may purchase 6" to 12" augers if needed. These augers are specially designed for longer wear, less abrasion.

The UNIVERSAL-WAY digger will save you money in time and labor. Its speedy low cost operation will pay for itself many times over.

The UNIVERSAL-WAY digging machine is guaranteed for satisfactory workmanship and quality of materials. See your nearest dealer or write direct.

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Burn them off with Walsh Flame Thrower. Very adaptable for burning under electric fence line. A giant blow torch with many uses. Safe. Operates one hour on gal. of distillate. See your dealer or write for low price.
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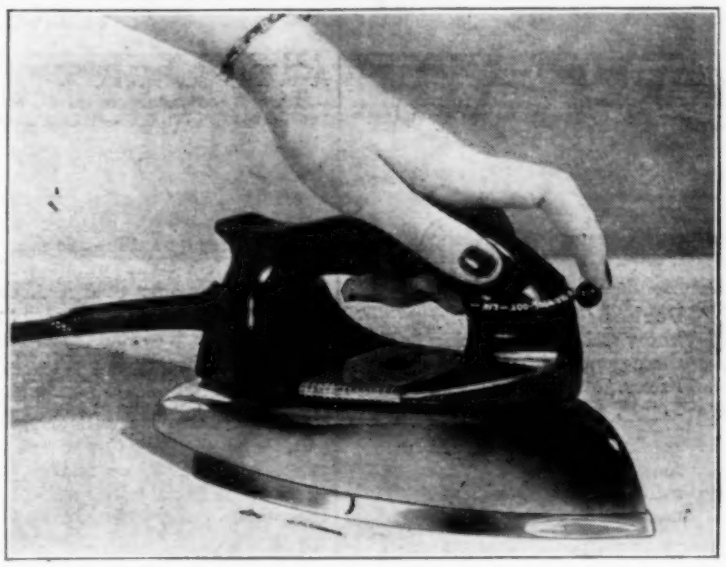
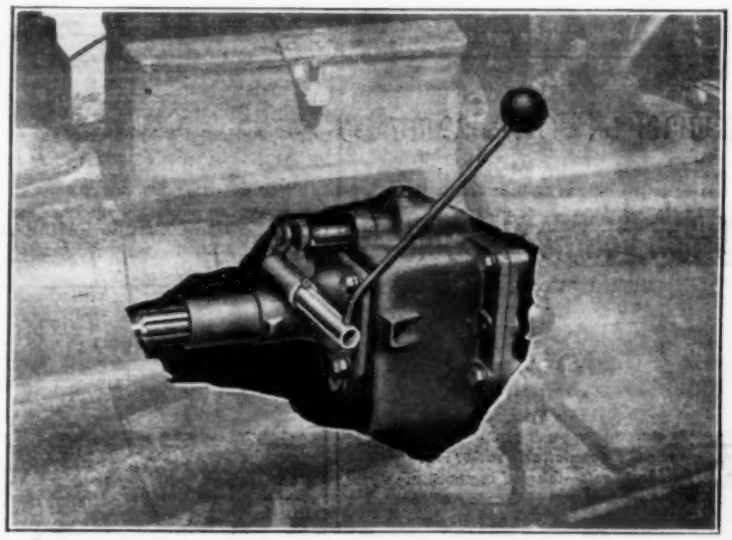
What's New
For Farm and Home?



Finger-Tip Control enables the housewife to select the proper temperature for any material while ironing. Linen, cotton, etc., are marked on the dial. This new automatic iron has also been reduced in weight to two and three-fourths pounds. Note the button nooks for getting close to buttons. Made by General Electric.

Milk Is Safe from spreading disease if it has been heated to a certain temperature for a certain number of minutes. New electric pasteurizers do this job in your home. Electric control is so accurate that milk does not get a "cooked" taste. This one is made by Waters Conley Co.

Bugs and Flies do not suspect this "spider," which fits over a light bulb or can be suspended from the ceiling. But it kills them because it is coated with DDT crystals. Girl has her fingers on the special knob for handling the spider. Introduced by B. & P. Products, Inc.



More Speed for Ford tractors is offered with this new six-speed transmission. For field work, there are two extra speeds. A road gear saves time on the highway. The power take-off operates at 1,246 revolutions per minute instead of 800. Claimed to save fuel as well as time. With the motor operating at half-throttle, the greatest engine torque is developed. Made by Sherman Products, Inc.

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GET PAID—

For Life!

8 out of 10 persons enter the hospital each year!

You can't beat the law of averages, but you CAN beat its expenses.

INSURE YOUR INCOME

Get complete facts at once on how you can GET PAID FOR LIFE. This new plan PAYS:

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CASH payments FOR LIFE when you are totally disabled.

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During first 24 months when expenses are greatest.

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For Accidental Death.

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This valuable booklet, "KNOW YOUR INSURANCE," contains clear, helpful, explanations of insurance terms and a DICTIONARY of often used insurance words.

Refer to this booklet and ***know your insurance.*** It's your security!
Also complete facts on how you can get LIFETIME SECURITY.

Woodmen Accident Co. of Lincoln, Nebraska

WOODMEN ACCIDENT COMPANY
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LINCOLN, NEBRASKA

Please send me, ABSOLUTELY FREE, my copy of "KNOW YOUR INSURANCE." I understand that this does not obligate me in any way.

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Perhaps you already know all about raising these good old "mortgage lifters."

If you've spent a lifetime getting pigs ready for market, you may be familiar with every fact contained in this booklet.

But it's dollars to doughnuts, you'll find some money-saving, money-making, down-to-earth tips in this informative General Mills' Booklet, "Pig Sense—Hog Dollars."

There's information on Breeds—Feeding—Management—Farrowing—Production Costs—Pasture—Sanitation, to mention only a few of the subjects covered. If you'd like a free copy, write our nearest office.

HOG FEEDING TESTS—Swine research at the Larro Farm includes pasture tests as well as dry lot comparisons. Last year, excellent results were obtained by running pigs on oats-rape pasture at the rate of 28 pigs per acre. About 2 bushels of oats and 6 pounds of Dwarf Essex rape were seeded per acre in the spring. A similar pasture is planned for 1947. In 1948, a permanent pasture should be ready for heavy use. This was sown on August 26, 1946 at the rate of 5.6 pounds of brome along with a bushel of oats per acre and with this was seeded about 9.6 pounds of a mixture containing 11 pounds alsike clover, 34 pounds alfalfa and 6 pounds of Ladino clover.

L-1405

General Mills
Larro Feeds
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DETROIT (2)—SAN FRANCISCO (6)
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REMEMBER THIS:—Comfort on the job is part of the science built into every item of U. S. Farm Footwear. The rest is the toughness, freedom from cracking and extra wear that gives you so much value for your money.

U. S. Arctics have leak-proof buckle construction; won't bind at the top . . flexible; comfortable rocker last. *Short Boots*—shingled construction. *Work Rubbers*—high or low cut, easy to pull on or off.

MAKERS OF
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Service Bureau

Finding Water Pipe Leak

To the Editor: How can I locate a leak in a water pipe which runs between my house and barn, four feet underground, without digging up the whole pipe? I'm sure there is a leak as the pump will start up about every three hours, even when no water is being drawn. — E. P., Mower County, Minnesota.

Ordinarily, a leak in an underground water pipe will show up as a damp place or one where the grass or weeds grow ranker, but if the pipe is laid in sand, or so the water goes down instead of up, this test would not show.

Hydrated lime mixed with the water in the pipe may make it show plainer.

If the leak is enough to make any noise whatever, it might be located by holding a stethoscope on the ground along the pipe and finding the place where the murmur is the loudest.

Take one wire from a sensitive telephone receiver, fasten one end to the pump and the other to an iron rod, which should be stuck in the ground along the pipe line.

The point giving the loudest signal would probably indicate the location of the leak.

On the other hand, it is possible that a leaking water bowl or float valve on a tank may be wasting a sufficient amount of water to actuate the pump that often.—I. W. Dickerson.

Earlier Notification Date Is Legal

To the Editor: My lease provides that I am to be notified by July 1 if the lease is to be terminated the next spring. Now I am told the state law is November 1, and I don't have to be notified until that time. Is this true? — K. E., Wright County, Iowa.

The law requires notice by November 1, but there is no reason why parties can not contract for an earlier date. If your lease provides July 1 notice for cancellation, and unless it is so served, the lease will continue for another year.

"They're things my wife's reducing diet says not to eat. . . . They should be good to fatten hogs."

Fidelity Paddy Pig Sez:
★★★HOG CHOLERA KILLS more pigs than other swine diseases.

★★★A 300 Lb. HOG KILLED by Cholera stands to lose the Farmer-Stockman about $80.00.

AVOID THAT LOSS
Spend 40 CENTS per pig
That's the SMALL COST TO VACCINATE at weaning time with

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Anti-HOG CHOLERA Serum and Virus

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Please send FREE "Livestock Literature" and sufficient quantity of Fidelity "TAMP-R-PRUF" Serum to vaccinate_____pigs average weight_____lbs.
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ARE YOUR BUILDINGS SAFE?
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WANTED: Female purebred fox terriers, papers unnecessary. Quote age, price. Shipping crates furnished. WM. SCHRUL, Pleasantville, N. J.

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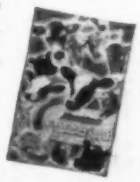

Blatchford's
WAUKEGAN ILLINOIS

You're Counting Noses . . .

and who isn't these days? But if you think because your hogs apparently are healthy now, they shall all stay healthy — you're counting noses too soon. Cholera may strike right now!

As a smart business man, you can prevent cholera outbreaks by letting your LOCAL GRADUATE VETERINARIAN vaccinate your hogs with ARMOUR SERUM and virus . . . they then have an active immunity.

You're smart to call a GRADUATE VETERINARIAN — whatever your livestock ills — for he alone, by virtue of his training and practice is qualified to treat your animals effectively.

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PETERSEN'S SHEET METAL WORKS, DENISON, IOWA

—OUR ADS ARE NEWS—

George R. McDonald

Took Machines At a Sale

ON JANUARY 9, Raymond J. Rickers held a farm sale in Crawford county, Iowa. Naturally, he was busy on sale day and couldn't keep track of all items. So George R. McDonald, 44, of Greene county, Iowa, helped himself to some of the machinery.

Here is the story in the words of Robert T. Knapp, cashier of the First National Bank in Denison, who clerked the Rickers farm sale:

"Four items were sold to a man who gave his name as George Miller. The items were a rubber-tired wagon with red metal box, a new harrow, a pair of disk transport trucks and a scoop shovel.

"Immediately after the sale, I went to check the sale sheets with Mr. Rickers, and it appeared that since no one knew George Miller it wasn't on the up-and-up. Upon inquiring, I found that the items had been loaded in the rubber-tired wagon and taken from the farm sometime during the progress of the sale."

The sheriff was notified and a hunt was started for the person who took the machinery.

About three weeks later, Floyd E. Koenck, Ivan McCormick, formerly of Greene county, and Homer De Vanney went to Greene county to get some items McCormick had left there when he had moved.

There they ran into information that led to the discovery George Miller was really George R. McDonald. The sheriff then arrested McDonald, who appeared in district court before Judge Bruce M. Snell.

McDonald entered a plea of guilty and was sentenced to a term in Fort Madison penitentiary not to exceed five years. All the machinery was recovered except the scoop shovel.

The Wallaces' Farmer and Iowa Homestead Service Bureau reward in this case was divided among the four men who were instrumental in the arrest of McDonald. Rickers, whose farm was protected by the Service Bureau, received half of the reward, or $25. The other $25 was divided between Koenck, McCormick and De Vanney.

In addition, the First National Bank at Denison paid a reward to these men.

IN everything that counts in good combine performance, *"You just can't beat the John Deere No. 12-A Six-Foot, Full-Width, Straight-Through Combine"*. Its well-balanced design puts it ahead of the field—offers you *more value for your money.*

Surplus capacity for saving more grain or seed in all crop conditions . . . *easy adaptability* for successfully harvesting all combineable crops . . . *exceptional simplicity* for ease of operation . . . *light weight* for low power requirements . . . *lasting strength* for field dependability and low operating cost—these all-important No. 12-A advantages are your assurance of combine harvesting at its best.

See your John Deere dealer for further information. A free 4-color folder will be mailed upon request.

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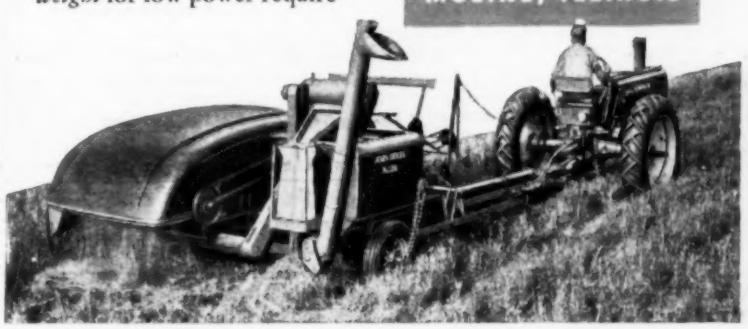

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What is the secret of Corn King's amazing feed lot results? We call it Element "X"—the art of blending and compounding all the complex ingredients that go into this great mineral, the careful laboratory controls, the years of field experience, which combine to raise it head-and-shoulders above the ordinary mineral formula. They aren't listed in the ingredients, but they certainly show up in the RESULTS when you feed Corn King. It's worth asking for by name.

Barlow, Wright & Shores, Inc., Cedar Rapids, Ia.

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MINERAL COMPOUND

SAFETY FIRST!! Do your buying from firms advertising in Wallaces' Farmer and Iowa Homestead. If you do not find in Wallaces' Farmer and Iowa Homestead the articles you want to buy, just let us know what you want and we will be glad to give you names of reliable firms.

F-25

3rd WEEK	2nd WEEK
4th WEEK	1st WEEK

Pasture rotation

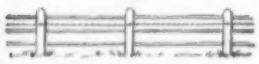
Protecting ponds

Fencing on contour

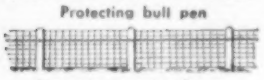
UL

With a PRIME Electric Fence Controller

Preventing spread of disease



Protecting bull pen



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Strip cropping

...it's easy to do *all* these money-making jobs *right*

Modern farming practices — the kind that give you full, profitable use of all your land — need the flexibility of good electric fence. With a Prime hi-line controller, you can farm the modern way, with ease and safety. You can use all the land-saving, money-making practices shown here — and more — do the fencing jobs quickly and surely.... Prime delivers *more shock*, shock that you know is *right* for *your* fence. Prime's Shock Control regulates the shock and Prime's Multiple Signal Lights show you *how much* shock is on the fence. And every Prime hi-line controller carries the Underwriters' Laboratories seal. . . . It pays to depend on Prime, No. 1 in electric fence for 13 years.... See Prime's hi-line and battery controllers at your dealer's. If he can't supply you, write to:

The Prime Mfg. Co.
1669 S. First St., Milwaukee 4, Wis.

"100% satisfactory"

—says John Delikat, Route #1, Hales Corners, Wis. Mr. Delikat, shown with his son Elmer, has used the Prime 486 controller for over two years. Says Mr. Delikat: *"The Multiple Signal Lights tell us exactly how much shock is on the fence. The Shock Control Switch makes it possible to keep an effective shock on the fence in all weather. We never really knew how to use electric fence until we got this Prime 486. We figure our electric fence has saved us hundreds of dollars."*

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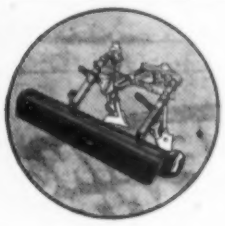

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May Not Buy Dirty Milk

DIRTY milk is going to make trouble for the producer, according to some signs. The pressure for better quality milk is apt to come from two quarters.

As the milk market becomes more competitive, dairies are raising their quality standards. They know where the bad milk comes from, and if they get more milk than the market demands, the producer of low quality milk will be eliminated first.

Then, too, there are state and government inspectors. They are beginning to put on the pressure for cleaner milk. This pressure is reported in Iowa by C. Y. Cannon, head of dairy industries at Iowa State College.

Cleanliness is the key to quality in milk, Cannon points out. Here are some things farmers might have to do if milk becomes so plentiful that dairies can refuse low quality milk.

Clean barns raise the quality of milk. Equipment and utensils should be sterilized each day, and protected from contamination of any sort.

Even the dust whipped up on a windy spring day can cause more sediment to show up in the milk if utensils are not protected.

Proper cooling is important in producing good milk, Cannon says. Milk cools much faster in water than in air. Water coolers are necessary to produce good milk.

There'll be less sediment in the milk if cows are brushed and kept clean around the flanks, hind legs and udder. Feed flavors in milk are another thing to guard against.

The dairyman who watches all these points will have no trouble in selling milk. But Cannon and others think producers of milk of low quality should improve that quality now if they want to continue selling fluid milk.

Some Borers Escape Deep Plowing

Clean, deep fall plowing killed 18 per cent more corn borers than did the same kind of spring plowing in tests at the Maine agricultural experiment station.

Screened cages were built over areas plowed 10 inches deep. Two per cent of the borers emerged from the fall-plowed area. Twenty per cent of the borers emerged from spring-plowed land.

In some of the fields checked, many of the stalks buried in the fall were pulled to the surface while working the land before planting. Larvae in these stalks survived.

"Every time I try to milk her, she swishes me with her tail."

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Lots of dads will tell you boys who have livestock of their own make best "helpers" on farm.

Contract For Hired Man

DO YOU have a written contract with your hired man? Or do you even know exactly what the pay will be? "Going wages," verbally agreed to, is a too common method.

A written contract is not necessary to the validity of a wage agreement in Illinois unless it is to last more than one year, says H. W. Hannah, of the Illinois College of Agriculture.

If either the farmer or the hired man wants an agreemen for one year or longer, there should be a contract signed by both.

The Illinois courts have held that when a man is employed for an indefinite length of time, it is a "hiring at will." That is, he can quit or be discharged at any time.

When a farm laborer is hired, and no specific wage is named, the prevailing wage in the community for the kind of work done will apply, says Hannah.

Hannah thinks a definite period of employment, named in a wage contract, would afford protection to a married farm laborer. Also, it should protect the farmer against the laborer ending the employment in the harvest season.

If neither party wants to be bound too closely, a wage contract could provide a period for the giving of notice before a hired man could quit or be fired.

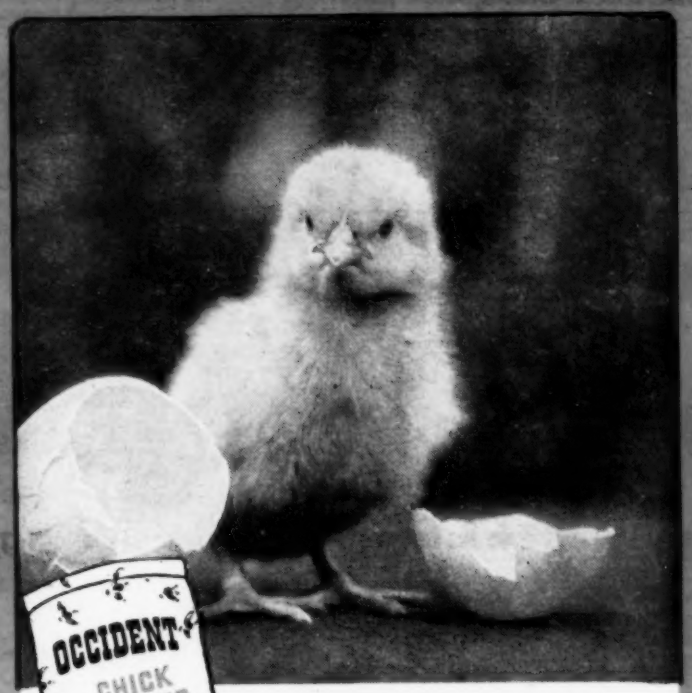
Should Tractor Tires Have Some Air?

To the Editor: Should tractor tires be filled 100 per cent with solution or should they be 85 per cent solution and 15 per cent air?—R. L. T., Benton County, Iowa.

I don't think anyone has a definite answer as to which is better. It will take several years' experience to show which gives the longer life. One large tire concern recommends 100 per cent solution, while others are just as sure that some air should be left in the tire.

I would prefer the 85 per cent filling, and many tractor service experts believe the same way.

I think the cushion and "give" due to the small amount of air would be helpful.—I. W. Dickerson, Agricultural Engineer.



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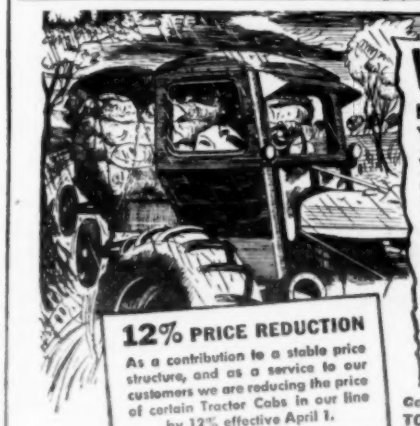

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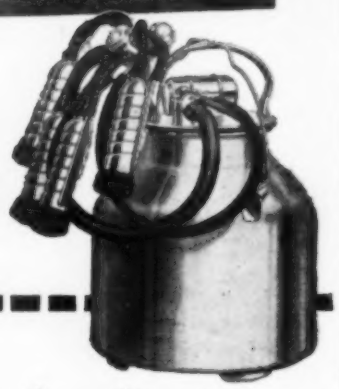

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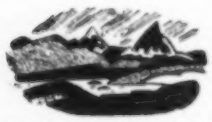

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Heavy grazing cuts blue grass yields severely, according to a Wisconsin experiment. The test was made with a new strain of blue grass, but the same effect could be expected with the common variety.

When the blue grass was permitted to make a good growth—conditions similar to moderate grazing—it produced four and one-fourth tons per acre on a dry-matter basis.

Close grazing conditions reduced the yield to two and one-half tons, or almost half. Both of the pastures were treated with a complete fertilizer.

Figure The Amount Of Plant Food

So you have the fertilizer recommendations for a certain field, but they read, for example, 90 pounds of 0-45-0 per acre, and all you have is 0-20-0.

How do you convert the figures? Fertilizers should be applied on a plant-food equivalent basis. If the recommended grade can not be obtained, you can use some other grade or grades that supply the same amount of plant food.

The figures refer to the percentage of nitrogen, phosphorus and potash per 100 pounds, in the order named. Thus, 100 pounds of 0-0-25 is equal to only 50 pounds of 0-0-50.

Here are some more:

90 pounds of 0-45-0 equals 200 pounds of 0-20-0.

135 pounds of 0-45-0 equals 300 pounds of 0-20-0.

100 pounds of ammonium nitrate (32-0-0) equals 160 pounds of cyanamid (20-0-0).

50 pounds of muriate of potash (0-0-60) equals 120 pounds of manure salts (0-0-25).

200 pounds of 10-20-0 equals 200 pounds of 0-20-0 plus 60 pounds of ammonium nitrate (32-0-0); or 200 pounds of 0-20-0 plus 100 pounds of cyanamid (20-0-0).

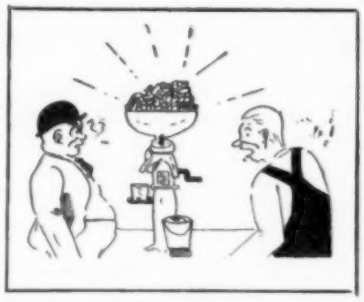
100 pounds of 0-20-10 equals 145 pounds of 0-14-7.

100 pounds of 0-20-20 equals 145 pounds of 0-14-14; or 165 pounds of 0-12-12.

125 pounds of 4-16-8* equals 165 pounds of 2-12-6; or 110 pounds of 3-18-9.

150 pounds of 4-8-16* equals 130 pounds of 3-9-18.

(*Equivalent in phosphorus and potash, but supplies more nitrogen.)



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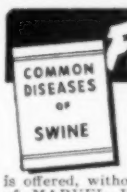

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HOW much time does it take to get a ton of hay in the barn? Which operation takes the most man hours? And, most important, where can you best make cuts that will save time and work?

One experiment station sent out men with stop-watches to time all the operations connected with haying on 30 different farms. The hay was all about the same and yielded a little more than 1.7 tons per acre.

These figures are averages of time used on all the farms where a certain method was employed. On farms with a six-foot horse-drawn mower it took an average of 64 minutes to mow an acre.

With a seven-foot tractor mower, the average time was 39 minutes. Part of the saving in time for the bigger tractor mower was in travel to and from the field and in fewer stops for repairs and adjustments.

A tractor-drawn side-delivery required 23 minutes an acre to rake the hay. It took slightly longer with a team, and a dump rake was least efficient.

The big difference came in getting the hay from the field to the mow. On those farms where the barn was close to the hay field, a buck-rake tied with a one-man baler at 199 minutes per ton. It took 157 minutes per ton with a three-man baler, and 166 minutes with a regular hay loader.

Those figures include loading the hay, unloading it and either mowing it away or storing the bales in the barn. The grapple fork saved some time in unloading the loose hay.

If any one man had used all the least efficient methods, his hay would have cost him four hours and 23 minutes per ton. Using all tractor equipment and a one-man baler, the most efficient could have put the hay in with two hours and 51 minutes of labor.

In this test, no figures were given for costs. The most efficient equipment represented a far greater investment. Neither was anything figured for the variations in quality of hay, or convenience in feeding, selling or handling the hay. The experiment was devoted strictly to finding out how many minutes were needed to do the work under each method.

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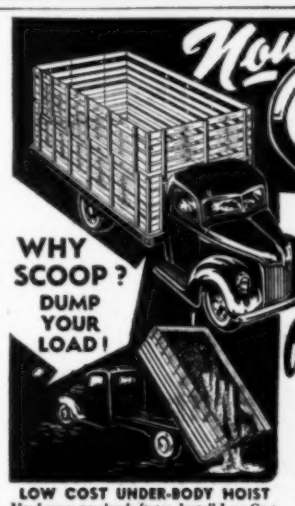

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FREE BODY FOLDER Gives complete description and illustrations of Omaha Standard Bodies. Phone, write or wire for free folder and low factory-to-you prices of ALL styles and sizes.

LOW COST UNDER-BODY HOIST
Haul more pay loads faster. Install Low Cost Omaha Standard 7 Inch Hydraulic Under-Body Hoist. Dumps all bodies. Only $294.78. Completely mounted, ready to dump, tax paid. F.O.B. Factory.

DON'T BE CONFUSED . . . THERE'S ONLY ONE OMAHA STANDARD

OMAHA STANDARD 2411 W. Broadway Council Bluffs, Iowa
CONVENIENTLY LOCATED FACTORY BRANCHES: At Stock Yards — DENVER — KANSAS CITY — ST. LOUIS

SAFETY—at Home—when you Roam

LITTLE GIANT FIRE FIGHTER

Measures 7½", weighs less than 1 lb. YET FORCEFUL ENOUGH TO SAVE YOUR LIFE! Packs a FISTFUL of COMPRESSED POWER. Primed to safeguard YOUR HOME, GARAGE, BOAT, AUTO, & LIVESTOCK HOUSING against the sudden danger of FIRE!

INSTANTLY stops all fires—even electrical, gasoline or oil blaze. Easy at hand; just attach attractive bracket to wall, steering wheel of car, boat, etc. Easy to operate: a turn of the valve ejects the magic methyl bromide vapor. Immediately fire cools and extinguishes.

Non-staining! • Non-corroding! • Unaffected by weather!

A squirt with LITTLE GIANT, p-r-o-s-t-o, wet ignition wires and coils in your stalled car or motorboat are dry!

Send Money Order or Check, we prepay charges. C.O.D.'s accepted

Dept. D-9 ASCO, THE AMERICAN HEALTH & SAFETY CORP.
1192 Broadway, New York 1, N.Y.

Polished Brass

IOWA SOUTHERN ABERDEEN-ANGUS ASSOCIATION

Spring Consignment Sale

Tuesday, April 29th, 1947

Headquarters, Harken Farms, Osceola, Iowa
Highway 34, one-half mile east, intersection with 69

36 BULLS — 80 HEAD — 44 FEMALES

A high class offering to suit the needs of the Purebred Breeder, Rancher and Commercial Cattleman.

Breeders, in increasing numbers, recognize Southern Iowa as the economical source for herd improvement and foundation stock.

CONSIGNORS

Noel I. Baker ..... Leon
Clay Ballantyne ..... Lamoni
Bell & Sons ..... Osceola
Ray & Lloyd Bond ..... Winterset
G. C. Caldwell & Sons ..... Humeston
Wayne Crittenden ..... Afton
Albert Davison ..... Humeston
Lois M. G. Eyerly ..... Winterset
E. Floyd Grimm ..... Grand River
Harken Farms ..... Osceola
Harmon Bros. ..... Creston
F. W. Hoover ..... Ellston
Leggett Bros. ..... St. Charles
Arcel Luce ..... Osceola
Carl E. Luce ..... Weldon
Cecil V. Lutz & Sons ... New Virginia
Riley Marker ..... Lucas
McKenzie & Son ..... Macksburg
Nissen & Shields ..... Afton
G. L. Sage ..... Leon
Harold W. Smith & Sons ..... Murray
Neil O. Smith ..... Leon
Walter Vorhies & Sons . Shannon City
C. T. Wambold & Son ..... Winterset
Walter Wiren ..... Chariton

We are selling 36 bulls in this sale and among these are some that are good enough to make good herd bulls. Then there will be a lot of good bulls that farmers and rangemen can use, and car load buyers will find this sale a good place to buy a car load. These are sired by sons of very noted sires. You will also find a high class lot of bred and open heifers and some splendid cows. Drop us a line and ask for catalog and please mention Wallaces' Farmer and Iowa Homestead. Address

RICHARD T. BELL, Secretary, OSCEOLA, IOWA
Col. Roy G. Johnston, Auctioneer M. T. White, Fieldman

Shadeland Farms 53rd Duroc Sale

75 HEAD OF FALL FARROWED DUROCS

LUVERNE, MINN., APRIL 24, 1947

Sale at Farm, 5 miles west of Luverne. Sale begins at 1:00 o'clock p.m.

Selling 75 head of fall farrowed Durocs. 30 big, thick, big bodied fall boars; 45 choice fall gilts. This is an extra fine lot of Durocs, weighing up to 350 lbs. These are sired by the grand champion, **FANCY LEADER, LOW DOWN LEADER, ROYAL SENSATION** and **INVINCIBLE MARVEL.** This will be a fine opportunity to obtain the finest in Durocs from a herd that has produced top quality Durocs for over thirty years. You can select unrelated boars and gilts in this sale. Write for catalog and please mention this paper. Address

JUHL BROTHERS, LUVERNE, MINN.

Advertisement

From where I sit ... *by* Joe Marsh

That Ring Around the Bathtub

Jeb Crowell blew his top the other day. Seems that for weeks he's been trying to get his youngsters to scrub out the bathtub after using it. And this night he sees *two* rings around it—one where young Sonny left off, and another about Pinky's level.

He raves and rants—and takes it out on the missus for her lack of discipline. And later that evening he sees her quietly polishing the hardwood table that's right by his chair. She's removing the rings he's left there with his evening glass of beer!

From now on, Jeb's mighty careful to put his glass down on the table cover—just like the missus does. And from what I hear he's a little more forgiving about those rings around the bathtub. He just keeps on patiently and gently reminding.

From where I sit, there are little annoyances in every family—conflicting habits and opinions in every community. A little patience—a little more "forgive and let live" is the only antidote.

Joe Marsh

Copyright, 1947, United States Brewers Foundation

MINNESOTA

Angus Breeders Sale

Location: 15 miles east of South Dakota line—10 miles north of Iowa line, at the fair grounds

SHOW, 10:00 A. M.—SALE 1:00 P. M.

Luverne, Minn., May 1st

74 HEAD—29 Top Young Bulls, 45 Richly-bred Females

One of the finest offerings ever presented by the Minnesota breeders. They have drawn deep into their herds and selected cattle of modern type, displaying real quality. Good bulls suitable for herd sires, females of foundation character. The consignors are: E. W. Brown, Luverne; Walter Brunsvold, Jackson; Campbell Bros., Utica; Eikmeier Bros., Pipestone; A. M. Falkenhagen, Kasson; Lloyd Griffith, Claremont; Archie McGregor, Mapleton; Bruce McGregor, Mapleton; John A. McKinny, Granite Falls; Herbert L. Mensch, Truman; Martin Milbrandt, Fairmont; F. W. Miller, Mapleton; J. Ivan Sample, Spring Valley; Bruno Teuchert, Fairmont; Emil Faxland, Alden, and University of Minnesota, St. Paul.

The bulls are most all of serviceable age . . . some real prospects. The females include cows with calves. Bred cows and heifers and attractive open heifers. Breeding is the best. Plan to come. Ask now for **FREE** catalog. Please mention this publication when writing. Address

CLEMENT C. CHASE, Secy., Box 669, PIPESTONE, MINNESOTA
Auctioneer, J. E. Halsey

BOOSTER DINNER—6:30 P. M., April 30th. All are invited. COME!

Richly-Bred Hampshires

Sale held in comfortable F.F.A. building at

Iowa Falls, Iowa, Friday, April 25

Night Sale—7:30 P. M.

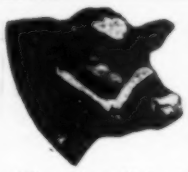
60 HEAD — 28 HERD BOAR PROSPECTS, 33 GILTS—An opportunity seldom equaled

One of the best offerings of the year from a herd that has consistently shown and produced Champions. They are by SHINE-ON, the breed's leading sire; POST-WAR, 1946 Iowa Grand Champion.

Included as a special attraction are four boars sired by PERFECT GLORY, he in turn a litter mate to COMPREST. These four boars are considered to be some of the best of the season. Also included is a litter by BREED BOOSTER; one litter by UPWARD BOUND. Quality and breeding you will like. Plan to come. Ask for **FREE** catalog. Please mention this publication. Address

LETTOW BROS., ALDEN, IOWA
Auctioneer, G. H. Shaw

Lidel's Polled Shorthorn Dispersion



Wentworth, South Dakota

MONDAY, MAY 5, 1947

63 HEAD—48 Lots—13 Bulls—12 Cows With Calves

The sale will be held at the farm, 5 miles southeast of town. There will be 63 head of cattle in the sale. 48 lots, 2 herd bulls, 11 young bulls, eleven to eighteen months old, reds and good roans. Fifteen good cows sell with calves at foot, and the most of them rebred. Also 12 cows and bred heifers, and 8 open heifers. This is a good, clean, healthy herd. There has not been a reactor on the farm for either T.B. or the Bangs test. All the younger cows and heifers are tested for Bangs, so you will see you are getting tested cattle in every way. We are selling two splendid herd bulls. One of these is the red coming three-year-old, **COLLYNIE SUPREME 2d**, by Collynie Compact. The other is **LORD COLLYNIE**, a white 5-year-old, that is sired by Correct Type. There are a lot of good low down calves in this sale that are selling with their dams. This is a complete dispersion sale and here is where you will get some real bargains. Write for catalog at once. Address

R. A. LIDEL, WENTWORTH, SOUTH DAKOTA
Col. J. E. Halsey, Auctioneer

Clarke County Hereford Association Sale

Osceola, Iowa, Saturday, April 26, 1947

1:00 P. M.—Osceola Sale Barn

60 Head Horned and Polled Registered Herefords

35 BULLS—25 FEMALES

These cattle are consigned by eleven prominent breeders of southern Iowa:

A. Cecil Walker, New Virginia; Warren E. Barger, Weldon; C. W. Gaumer & Sons, Murray; Walter J. Blauer, Afton; Cliff Redman, Van Wert; Eugene Marquis, Osceola; Dewey Cornell & Sons, New Virginia; Frank M. Hayes, Creston; W. Lynn Stickler, Osceola; A. M. Goodrich, Woodburn; Orval Burchett & Sons, Grand River.

We are selling a very choice lot of bulls and some very excellent females in this sale. This will be a sale where you can pick up some real bargains. Write for free catalog at once and please mention this publication.

WAYNE O. BURCHETT, Secy., GRAND RIVER, IOWA
Col. Henry G. Baier, Auctioneer

If You Need a Good Boar....

Farmers who need a good boar or gilt or first class individuals of either sex in draft horses, beef or dairy breeds will find the leading breeders listed in these pages and offering surplus stock. Make our columns your guide when buying.

If you do not find in Wallaces' Farmer and Iowa Homestead what you want to buy, advise us and we will gladly give you names of reliable firms that can take care of your needs.

Address Live Stock Advertising Department

Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa

LIVESTOCK NEWS

The Northeast Missouri Angus sale, at Memphis, Mo., March 22, was topped by a bull, Lot 9, Blackcap Emulous G. M., sold by Harold Rogers, Kirksville, Mo., to Albert Ledford & Son, Reger, Mo., for $1,200. The female top of $725 was paid twice in the open heifer division. Maid of Bummers, consigned by Mary Josephine Dierks, Memphis, Mo., was purchased by E. M. Tipton, Jefferson City, Mo. A January, 1946, daughter of Envious Burgess R. was consigned by Earl Rogers, Kirksville, Mo., and sold at $725 to Robert Kelso, Allerton, Iowa. Bred heifers sold up to $700, with Fred Roberts, Muscatine, Iowa, taking Janera of Green Crest 7th at this figure. The 103 head brought a general average of $334. Auctioneers, Johnston and Sims.

The Chariton Valley Angus Breeders sale, held at Kirksville, Mo., March 21, drew an extra large crowd. Lot 72, consigned by Dean Grisamer, Cora, Mo., brought the top price of the day, going to Dr. A. W. Harrington at $800. Albert Ledford & Son, Reger, Mo., paid $650 for Lot 42, a May, 1945, daughter of Blackcap's Revolution 3d, consigned by Victor Hoffman & Son, Kirksville, Mo. Ben Bowne, Ottumwa, Iowa, paid $610 for the July, 1946, daughter of Eileenmere 602d, consigned by Dean Grisamer. The 10 bulls made an average of $269, with the 60 females averaging the same amount. Auctioneers, Johnston and Sims.

The Harold R. Massee & Son Jersey sale, Nashua, Iowa, March 10, under the able management of Ivan N. Gates, was most successful. The top cow sold for $750, and went to Wilbur J. Little, West Branch, Iowa, who bought nine head. The top bull, Design Paxie Forward, sold for $600 to R. Claire Wemer, Rose Hill, Iowa. The 67 head averaged $297.65.

A large crowd was in attendance at Iowa City, Iowa, March 1, for the Oliver-Driscoll Angus sale. E. T. Davis, Iowa City, paid the top of $1,000 for Lot 7, Juana of Bellevue 2d, by Clarquin Elsiow's Marshallmere 3d, with a heifer calf at side. The top bull, Lot 1, Edinburg of Ida, by Juana's Revolution 3d of Ada, sold at $670 to Wilbur Lynch, Maloy, Iowa. The 87 lots made a general average of $334. Auctioneers, Roy Johnston and Ray Sims.

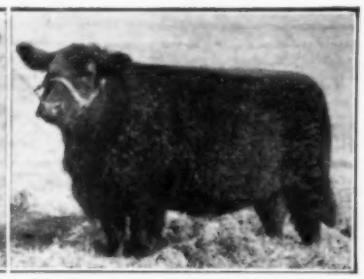
FIRST ANNUAL SALE
ILLINOIS VALLEY GUERNSEY BREEDERS ASSN.
NORMAL, ILL., TUES, APRIL 29
59 Registered Guernseys, 54 females, including fall calves suitable for 4-H prospects. 5 top quality young bulls. Ask for FREE catalog. Please mention this publication. Address
L. E. DENNIS, SR.
Box 266 FARMINGTON, ILLINOIS

Harrison County Aberdeen Angus Breeders' Assn. Sale

8 Bulls and 46 Females

BETHANY, MISSOURI, FRIDAY, MAY 9th, 1947

TARKIO'S QUALITY LAD


ECHO ENCHANTRESS LASSIE

We are putting on a show at 10 o'clock in the morning and the sale will be held at one o'clock in the afternoon at the Bethany fair grounds. This is an unusual lot of well bred Angus cattle, including most of the prominent Angus families of the present time, and the cattle are in nice condition. We are selling 8 bulls and 46 females, and take it from us they are good. In the bull line we are selling one tried sire, four coming 2-year-olds and three yearlings. This is a very choice group of bulls. Among the females are cows with calves at foot, bred and open heifers. The families are Juana Ericas, Miss Burgess, Ericas, Fourth Branch Blackbirds, Judy and McHenry Blackcaps and Prides. This is our first sale and we are putting in many of the very best things we have in our herds. These cattle are sired by Revolution H. 45th, a great breeding grandson of Glencarnock Revolution 6th, Superlative, Eddimere, an excellent breeding son of Prizemere 141, Eilenmere 617 and other good sires. Write for our catalog and please mention this paper. Address

C. H. THOMPSON, Secretary, HATFIELD, MO.
Col. Roy Johnston, Auctioneer. M. T. White, Fieldman.

KROTZ-SWARTZ
ABERDEEN ANGUS SALE

To be held in the sales pavilion at
MARYSVILLE, KANSAS, TUESDAY, MAY 13, 1947
70 Head—15 Bulls and 55 Females

These two herds are noted for their high quality of cattle that they have been producing for a number of years. Bulls from their herds are heading the best herds in Nebraska and Iowa, and other states. The Krotz herd has made a great reputation with that wonderful bull, Evidence of Strathmore, and now with Ever Prince of Sunbeam, while the Swartz Bros. have made a great reputation with Evolution's Black Prince and Barb Eston 2d 689118. They are selling 15 real bulls in this sale, and these are good enough to go to the head of any herd. Then they are selling 55 females that are among the choicest that have been sold in the west this year. All are popular families, and all quality cattle. Write for our catalog at once and please mention Wallaces' Farmer and Iowa Homestead.

Krotz Stock Farm, Odell, Neb., or Sunflower Farms, Everest, Kan.
Col. Roy G. Johnston, Auctioneer

4th Iowa State
GUERNSEY SALE
STATE FAIR GROUNDS
DES MOINES, IOWA
WEDNESDAY, APRIL 30th
62 HEAD—55 selected Females, 7 outstanding Bulls. 24 outstanding herds from Iowa and 8 other out-of-state herds will contribute to this offering of good Guernseys. A number of good 4-H heifers in the sale. 20 cows, 20 of the best bred heifers ever to be sold in a state sale and 15 heifers breeding age plus 7 bulls that will do well in the 700-lb. class. Boulder Crest, Curtiss Candy, Skyline, McDonald, St. Croix, Jo-Be, Oakvale, and Olaf Kjome will send consignments. COME. Ask for FREE catalog. Please mention this publication. Address
BILL HITZ, Secy., POLK CITY, IOWA

Annual Spring Sale
IOWA-NEBRASKA BREEDERS
REGISTERED MILKING SHORTHORNS
COUNCIL BLUFFS, IOWA
Wednesday, April 30, 1947
60 HEAD
25 bulls from baby calves to serviceable ages. 20 females, including many good heifers and heifer calves. A few Polled Milking Shorthorns, both sexes. Offering T.B. and Bangs tested. Write for catalog.
H. C. McKELVIE, Sale Mgr.
COUNCIL BLUFFS, IOWA

Yesterday — Today — Tomorrow — All ways
HEREFORD
STAR PERFORMANCE LEADS THE WAY

★ GRAND CHAMPION FEEDERS
8 Out of 8 Shows
1946—1947 SEASON

★ GRAND CHAMPION CARLOADS
7 Out of 9 Shows
1946—1947 SEASON

★ GRAND CHAMPION STEERS
9 Out of 11 Shows
1946—1947 SEASON

★ GRAND CHAMPION JUNIOR STEERS
75% of the Jr. Shows
1946—1947 SEASON

Herefords Bring You Low Cost Pounds, Better Prices, More Profit

At America's Fairs and Livestock shows Hereford fat steers and feeder steers compete with all breeds from far and near. Judging in the show-rings is done by competent men who expertly consider all angles, including market and feeder demands.

The show-ring is a mirror reflecting the relative ability of the breeds to reach perfection in animal form. Year after year, Herefords are predominately successful in winning Grand Championship awards.

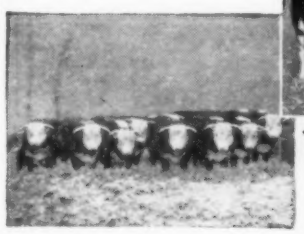
Even more important to the average breeder is the fact that 85% of the market topping beef animals on the central markets are Herefords.

Not only do Herefords yield highest quality beef which commands top prices, they produce it in minimum time on less feed. For example, 3 extra pounds per bushel of feed in Ohio Experiment Station feeding trials.

Whether you plan to found, improve or enlarge a herd, write or send the coupon today for illustrated booklets.

AMERICAN HEREFORD ASSOCIATION
Dept X
300 West 11th Street,
Kansas City 6, Mo.

★ 74% OF ALL PUREBRED BEEF CATTLE REGISTRATIONS ARE HEREFORDS
Over ⅓ Million in the Past Year



★ 76% OF ALL PUREBRED BEEF CATTLE TRANSFERS RECORDED ARE HEREFORDS
Over 300,000 in the Past Year

HEREFORDS THE BEEF BREED SUPREME

IN Prepotency . . . Prolificacy . . . Hardy Constitution . . . Grazing Ability . . . Climate Adaptability . . . Early Maturity . . . Fattening Aptitude . . . Dressing Percentage . . .

Stars in the Show Ring, Sales Ring, Feed Lots, Packing Plant, On the range and on the everyday markets. *Make Weight Without Waste.*

Send for free books

AMERICAN HEREFORD ASSOCIATION
Dept. X 300 West 11th Street, Kansas City 6, Mo.

Please send FREE illustrated booklets:
☐ Herefords, The Beef Breed Supreme
☐ This Business of Better Herefords

NAME .....
R.F.D. OR STREET NO. .....
CITY ..... STATE .....

Eastern Iowa SHORTHORN SALE

To be held at Hawkeye Downs Pavilion

Cedar Rapids, Iowa

Tuesday, April 29, 1947

50 HEAD

20 Big, Rugged Bulls

30 Richly-bred Females

This is a desirable lot of good well-bred cattle—drawn from the leading herds of Eastern Iowa, where good Shorthorns are bred. The bulls are of serviceable age, among which can be found herd-bull material. The females include young cows with big, lusty calves and many rebred. Bred cows and heifers mated to top herd sires. Also a most attractive lot of open heifers. The consignors are:

H. K. Owens	Homestead	Jesse Underwood	Ainsworth
Carlton Reed	Bellevue	C. A. McCormick	Mechanicsville
Evergreen Farm	Columbus Junction	L. & A. T. Robinson	Masonville
H. L. Busching & Son	Tipton	Ellis Staveley	Reinbeck
Urice Bros.	Vinton	Penningroth Bros.	Wellman
Donald Nichols	West Liberty	F. D. Sutherland	Center Junction
John B. Rockwell	Mt. Pleasant	Paul Leeper	Packwood
M. R. Maurer & Son	Manchester	Vernon Burr	Lone Tree
Burt Neal & Son	Mt. Vernon	Ronald Armstrong	Mechanicsville
I. H. Whitman	Lisbon	Raymond Coffland	Watkins

A study of the catalog and you will find rich breeding. Some of the best sires represented are BRAELODGE HEADLIGHT, EDELLYN GOLDEN MERCURY, MILLHILLS SENATOR, DIVIDE WELLINGTON, DIVIDE GOLD CADET, M. F. ROYAL LEADER, WILL A-DELL GOLD PLATE, HELFRED SPOTLIGHT, PRIDE OF SUNNYSIDE, COMMANDO DICTATOR, DIVIDE SENSATION, and other great sires. Breeding that will assure their future breeding ability. This should be a good place to buy cattle. Make plans now to attend ask for the **FREE** catalog. Please mention this publication. Address

DAN PENNINGROTH, Sale Mgr., WELLMAN, IOWA

Auctioneer, J. E. Halsey

First Annual Lamoine Valley ANGUS SALE

Location north of Macomb—in pavilion on Hamilton farm

Good Hope, Illinois

May 7, 1947

60 HEAD

5 BULLS—55 FEMALES

For the first sale the breeders of this section have selected their best cattle. The 5 bulls will please and are herd-heading prospects. The females are a desirable lot . . . good individuals, rich in pedigree. You will find the blood of

SUNBEAM — EILEENMERE — BANDOLIER OF ANOKA

The Consignors are:

W. T. Weir, Gladstone, Ill.
T. J. Banderer, Monmouth, Ill.
George H. Hallum & Sons, Monmouth, Ill.
F. A. Moore, Monmouth, Ill.
Leslie T. Hamilton, Good Hope, Ill.
Alex Games, Good Hope, Ill.
J. Miles McGrew, Walnut Grove, Ill.
Carl Gonnett, Bushnell, Ill.
F. M. Bradley & Sons, Avon, Ill.
Leonard Swigert, Maquon, Ill.
Truax & La Voi, Flatt, Ill.
Bruce Bricker, Macomb, Ill.
Baylor Farms, Cuba, Ill.
Leon Barrett, Lewistown, Ill.
Dean Depler, Lewistown, Ill.
Clyde Ewan, Lewistown, Ill.
Ollie DeGarmo, Plymouth, Ill.

FAMILIES

Georgina
Maid of Bummer
Miss Burgess
Juana Erica
Elslow Erica
Cridlan Erica
Evergreen Erica
Glencarnock Elba
McHenry Barbara
McHenry Blackcap
Queen Mother
and others

An offering that will have a strong appeal to our best cattlemen. You can make profitable and admirable selections in this auction . . . with grand champion breeding close up of the most up-to-date blood lines . . . plus the popular good producing families, which make excellent foundation females. Plan to attend. Ask now for **FREE** catalog. Please mention this publication. Address

BRUCE BRICKER, Sale Mgr., MACOMB, ILL.

Coder Hamilton, Secretary, Good Hope, Illinois

Auctioneer, Roy Johnston J. E. Halsey, Fieldman

Sale Headquarters: Lamoine Hotel, Macomb, Illinois

NESHAMINY Ayrshire Dispersal!!

NEWTOWN, Bucks County, PENN.

May 14 and 15, 1947

Sale at 11:00 A. M.

200 Reg. Ayrshires

FINEST IN THE WORLD

Due to the death of the founder, Geo. F. Tyler, this great herd of Ayrshires will be sold at public auction. This herd is rich in the blood of Neshaminy Golden Boy, Approved and Penshurst Donell, Approved, Penshurst Jim, Approved. 27 daughters of Donell, 38 daughters of Jim, 40 sons and daughters of Golden Boy. 140 by approved sires. This is the opportunity of a lifetime for the breeder and dairyman to get some of the greatest Ayrshires ever on the North American continent. Bred for size, type and production. This herd has been **T.B.** and **Bangs** certified for over 20 years.

To assure catalogs only to really interested Ayrshire folks enclose $1.00 in cash. Catalog large, expensive and complete.

Write for a catalog to

FRANK V. LILE, *Sale Mgr.*, BELLEFONTAINE, OHIO

TENTH ANNIVERSARY ANNUAL SPRING SALE

MARION COUNTY ANGUS SALE

To be held in comfortable sale pavilion

KNOXVILLE, IOWA, MONDAY, APRIL 28, 1947

113 HEAD—22 TOP BULLS, 91 EXCELLENT FEMALES

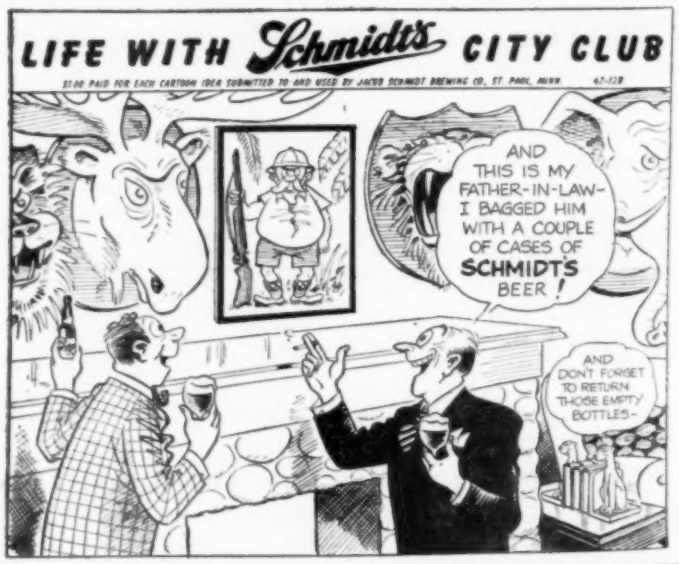
One of the strongholds for Aberdeen-Angus cattle in America. The dam of the 1947 Iowa State sale champion female was bred in **Marion County** and the dam of the champion bull was sired by a **Marion County** bull. This grand offering has been selected from 25 leading herds in a leading Angus state. The 22 bulls will please those looking for a herd bull; most all ready for service. There are 91 females, 41 cows, many with calves at foot—others heavy in calf. 50 heifers, two years and under—some bred—others open. **The Consignors are:**

T. D. BANE	O. O. EMERSON & SON	C. E. SHAWVER
BANKS & BANKS	C. S. HARVEY	CLARK SMITH
RAY CLINE & SON	EUGENE HARVEY	RANDALL SMITH
CLYDE M. CORE	CLIFFORD HARVEY	ZENARD SPAUR
J. M. DAVIS & SON	JIM MART & SONS	GERRITT VAN HAALEN
RAY DYER	EDD MURR	ABE VAN RHEENAN
LEO DYKSTRA	ROBERT OVERTON	ARCHIE VERNON
P. W. EGGERS & SONS	J. K. RODGERS	CORWIN WHITLATCH

The offering sired by some of the greatest sires—females mated to top bulls. The families are Elba, Eisa, Enchantress, Erica, Miss Burgess, McHenry Barbara, Blackcap, Georgina, Queen Mother and Prides. Nothing finer. A class of cattle that will work breed improvement. All **T.B.** and **Bangs** tested. Ask now for **FREE** illustrated catalog, mentioning this publication. Address

HERBERT CLINE, Secretary, BUSSEY, IOWA

Auctioneer, Roy Johnston J. E. Halsey, Fieldman



U. S. SAVINGS BONDS BOUGHT NOW MEAN SECURITY LATER

SOUTHEAST IOWA

Angus Breeders Sale

To be held at McMillan Park

Mt. Pleasant, Iowa

Thursday, May 8

75 HEAD

25 CHOICE, RUGGED BULLS

50 BEAUTIFUL, WELL BRED FEMALES

This will be the best lot of cattle ever offered by our Association—they have drawn deep into their herds and offer a class of cattle that will be a credit to them as breeders. The bulls are most all ready for service and include a lot of high class herd bull material. You can find a herd bull in this auction. The females are a most pleasing lot and include 11 grand cows with big, fine calves at side by great sires—many are rebred. 14 beautiful bred heifers and 25 most attractive open heifers. The consignors are:

J. C. Weaver.....Farmington, Iowa
Clifford Overton .....Donnellson, Iowa
Ed Blasi & Son.....Bloomfield, Iowa
Elbert Hill .....Winfield, Iowa
S. C. Rodgers.....Milton, Iowa
Henry McCleary .....Packwood, Iowa
Boyd Emde & Son.....Wellman, Iowa
Joe Dean Wells.....Bloomfield, Iowa
Irish Ridge Farm.....Burlington, Iowa
V. L. Baughman.....Bloomfield, Iowa
C. J. Schulte & Son.....Sperry, Iowa
Mr. & Mrs. Henry Hohl..Donnellson, Iowa
Lyman Almond .....Salem, Iowa
Glen Bacus .....Keosauqua, Iowa
Ralph Meade .....Mt. Pleasant, Iowa
Kenneth Redfern .....Yarmouth, Iowa
J. H. Coppes & Sons.....Yarmouth, Iowa
Maas Bros. .....Riverside, Iowa
C. H. Nau & Son.Columbus Junction, Iowa
Nau & Maple....Columbus Junction, Iowa
Lorence Jamison..Columbus Junction, Iowa
Twin Knolls Farm, F. D. Smylie & Son .....Columbus Junction, Iowa
Robert Walker .....Burlington, Iowa
Henry Bartenhagen & Sons..... .....Columbus Junction, Iowa
Beik Bros. .....Wapello, Iowa
Goose Creek Farm, Forrest Larmer..... .....Muscatine, Iowa
Sunset Knoll Farms, J. C. Holbert..... .....Washington, Iowa
Fred Laubach .....Fairfield, Iowa
Merle J. Smith.....Farmington, Iowa
Earl Fickel & Son.....Batavia, Iowa
F. W. Whitehead.....Kahoka, Mo.

This is a class of cattle that will help work breed improvement. The most popular families are well represented in both bulls and females. They are by good herd sires. You will be well pleased with the offering. A good place to buy cattle. All are **T.B.** and **Bangs tested.** Make plans now to attend. Ask for **FREE catalog.** Please mention this publication. Address.

DAN J. CASH, Sale Mgr., MT. PLEASANT, IOWA

Auctioneer, Roy Johnston J. E. Halsey, Fieldman

Page County Aberdeen Angus Sale

Consignments from Breeders in Page, Taylor and Ringgold Counties

Clarinda, Iowa

April 30, 1947

75 HEAD

20 Bulls, 55 Cows and Heifers

This is our seventh annual sale, and we think it is the best lot of cattle that we have ever sold. We have never before sold as good an offering.

CONSIGNORS

Clyde Barr.....Red Oak
Darwin De Voss.....Stanton
Lloyd Eitzen .....Hepburn
Morford & Henke.....Clarinda
Chas. Schilb .....Clarinda
E. L. Osburn & Son.....Bedford
Pagemere Angus Farms....Clarinda
Renander Bros. .....Essex
J. A. Rausch & Son.....Clarinda
H. K. W. Russell.....Bedford
Lester Steeve .....Hepburn
O. H. Steeve .....Clarinda
Orie Steeve .....Clarinda
Alvin Sunderman & Sons..Clarinda
L. J. Sunderman & Sons....Clarinda
R. J. Teachout & Sons..Shenandoah
Lawrence Varley .....Shenandoah
O. G. White & Son.....Villisca

BLOOD LINES:

Miss Burgess, Juanas, Blackcaps, and other popular strains

The bulls are all of serviceable age, bred in the purple, and sired by good herd sires. You will find here bulls that are good enough to go to the head of any herd, and you are going to like them when you see them. This can also be said of the cows and heifers that are selling in this sale. There will be the usual assortment of yearling heifers, two-year-olds, both bred and open, young and mature cows, either bred or with calves at foot, or both. Our endeavor is to breed only the best and that is the kind we are selling. Write for our catalog at once and please mention Wallaces' Farmer and Iowa Homestead. Address

NEIL E. JOHNSTON, Secretary, CLARINDA, IOWA

Col. Roy G. Johnston, Auctioneer M. T. White, Fieldman

McKenny's & McCrea's Sale Angus Cattle

10 Bulls, 70 Cows and Heifers

Maryville, Mo.

Monday, May 12, 1947

We are selling 10 bulls and 70 cows and heifers in this sale. It will be one of the best offerings sold in northern Missouri this spring. The McKenny herd has long been known as one of the best herds in this western country and has always sold the good ones. McCrea is also a good breeder and is selling about twenty head in this McKenny sale. There will be ten bulls and 70 cows and heifers. Mr. McKenny will sell twenty-five cows that will have calves at foot on sale day or will be near calving. These are good cows and are well bred. Some grand good individuals, with the very best of pedigrees. He is also selling some outstanding heifers, among which are some Miss Burgess, and one of these is a Maid of Bummers. Other heifers are of the same type and quality. It is few sales where you will find as many cows selling with calves at foot. Three of these heifers are sired by old Bar Prince. He is selling twenty head of 2-year-old heifers and these are very desirable. He is selling 5 Bar Prince bulls and one Bell Boy bull. Mr. McCrea is selling some Bar Prince bulls and 20 2-year-old heifers. Fifteen of these are bred heifers and he has them in nice condition.

There will be a lot of good things in this sale, and it will pay you to be here on day of sale if you are wanting some good well bred Angus. Write for catalog at once and please mention Wallaces' Farmer and Iowa Homestead.

J. F. McKENNY, Manager, KING CITY, MO.

Col. Roy G. Johnston, Auctioneer M. T. White, Fieldman

TALLCORN ANGUS BREEDERS' ASSOCIATION

3rd Annual Auction

In comfortable pavilion, Marshalltown Livestock Auction, east edge of City on 18th Ave.

Marshalltown, Iowa

Monday, May 19

Female sale starts at 12:00 Noon
Bull Sale in Evening at 7:30 P. M.

171 Head

SELLING AS 150 LOTS

21 Choice Cows with Calves
16 Desirable Young Bred Cows
13 Outstanding Bred Heifers
50 Attractive Open Heifers

50 GOOD, GROWTHY BULLS OF SERVICEABLE AGE

"Largest Angus District Auction in United States"

A most aggressive group of breeders from the following counties: **MARSHALL, TAMA, GRUNDY, HARDIN, STORY, JASPER** and **POWESHIEK** . . . largest membership of any Iowa District. Many of the leading breeders in the state live in this District. The offering is a well-bred lot of cattle and include a most practical offering. The bulls are all ready for service and include bulls suitable for high-class herd-heading material. You can find your herd bull in this auction. The females are a grand lot, with a number of young cows with calves at foot, many rebred, choice bred cows and heifers and a beautiful lot of open heifers. All rich in good breeding and presented in practical condition . . . ideal for the buyers. The consignors are:

Harry T. Young.....Prairie City
John W. Bailey, Sr. & Jr.....Marshalltown
Harold B. Brown.....Grundy Center
Loren H. Emke.....Toledo
Arnold & Jay.....Ames
O. & R. Farms.....Scranton
Claude Sanders & Sons.....Eldora
Garnett G. West & Sons.....Mitchellville
Roy M. Koster.....Gladbrook
Vernon L. Stubbs, Jr.....Green Mountain
Hall's Hill Farm.....Albion
Roy A. Ritter.....Reasnor
Warren Soorholtz .....
F. L. & C. M. Senter.....Maxwell
James R. Stephenson.....Reinbeck
A. Tufte .....Gilman
Marvin Wehrman .....Laurel
H. R. McBride.....Zearing
August J. Lafrenz.....Laurel
Wm. Klauenberg & Son.....Melbourne
Meier Bros. .....Melbourne
Fred J. Hushak & Sons.....Clutier
Eldon J. Hans.....Brooklyn
Greenmere Stock Farm....Green Mountain
Howard Evans .....Baxter
Clarence Decatur .....Grinnell
Rogers & Conn.....Monroe
Clement Bros. .....Newton
Glenn R. Brown.....Grundy Center

The large number affords a wide selection. Sires represented include Eborea Balso; Barb Juana of Ida; Envious Enslow Lad B.; Renamar 5th; Bandolier Barb. T.; Blackcap E.; Barry 8th of Wilton; Bandolier 69th of Wilton; Burgess Blackcap M. 14th; Illustrious Thickset S.; Glenside Bell Boy 7th; Kendale Blackcap B. 60th; Elba Marshall Lad 2d; Elate 4th of Bordulac; Ben Joe 18th of Ida; Earl Elfor; Entense Bandolier; Blinky Burgess; Ell Baron; Revolution of Page 43rd; Ethan of Ida Grove; Sir Erica G.; Elmhurst Black Marshall; Blackbird Bell Boy 11th; Blackcap Quiet Lad 2d; Eric Bandolier G. R.; Elbo Cap; Erica Burgess G.; and Blackcap Bellmere G. Breeding unsurpassed. All **T.B.** and **Bangs** tested. Ask now for **FREE** catalog. Please mention this publication when writing. Address

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Auctioneers: J. E. Halsey and C. G. Mason

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Everyone cordially invited.

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Milking Shorthorn Sale

Tuesday, April 29

1:00 P. M.

BLOOMFIELD, IOWA

Offering 54 head of choice Milking Shorthorns—cows, springing and fresh—heifers, bred and open. Some of 4-H Club age and quality. Carefully selected bulls of good breeding from calves to 2 year olds.

Also a fine group of unregistered purebred females—excellent milk-cow prospects—young, sound and calfhood vaccinated. All animals negative to Bangs and T.B. For **FREE** catalog write

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Apr. 21—Evergreen Stock Farm, Marshalltown, Ia.
Apr. 22—Warren County Breeders Assn., Indianola, Iowa; Earl F. Lohr, Secy., Milo, Iowa.
Apr. 28—Marion County Breeders, Knoxville, Iowa; Herb Cline, Secy., Bussey, Iowa.
Apr. 29—Iowa Southern Aberdeen Angus Sale, Osceola, Iowa; R. T. Bell, Mgr., Osceola, Iowa.
Apr. 30—Page County Angus Sale, Clarinda, Iowa; Neil Johnston, Secy., Clarinda, Iowa.
May 1—Minnesota State Sale, Luverne, Minn.; Clement C. Chase, Secy., Box 669, Pipestone, Minn.
May 7—Lamoine Valley Assn., Macomb, Ill.; Bruce Bricker, Mgr.
May 8—Southeast Iowa Breeders Assn., Mount Pleasant, Iowa; Dan Cash, Mgr.
May 9—Harrison County Breeders Assn., Bethany, Mo.; C. H. Thompson, Mgr., Hatfield, Mo.
May 12—J. F. McKenny, King City, Mo., and M. L. McCrea, Mayesville, Mo.; sale at Maryville, Mo.
May 13—Joe and Marshall Krotz, Odell, Neb., and Swartz Bros., Everest, Kan.; sale at Maryville, Kan.
May 19—Tall Corn Assn., Marshalltown, Iowa; C. G. Mason, Secy.
May 23—Chas. Rundell & Son, Elpaso, Ill.
May 23—Southwestern Wisconsin Assn., Lancaster, Wis.; J. C. Perrin, Sale Mgr., Bloomington, Wis.
May 28—Hoelscher Bros., Arcadia, Iowa; sale at Carroll, Iowa.
June 4—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Secy.
June 7—L. R. Morford, Iowa City, Iowa, and H. C. Meredith, Searsboro, Iowa.
June 9—Wayland A. Hopley, Atlantic, Iowa.
June 10—South-Central Iowa Angus Assn., Oskaloosa, Iowa; Clyde A. Hanna, Secy., New Sharon, Ia.
June 11—Harken Farms, Osceola, Iowa.
June 17—Central Illinois Breeders, Congerville, Ill.; S. E. Lantz, Secy.
June 18—Eastern Iowa Breeders, Davenport, Iowa; Oliver A. Hansen, Mgr., Durant, Iowa.

HEREFORDS

Apr. 23—J. C. Penney, Missouri Farms, Breckenridge, Mo.
Apr. 25—Northeast Missouri Breeders, Memphis, Mo.; Geo. Leslie, Jr., Secy.
Apr. 26—Clarke County Hereford Assn., Osceola, Iowa; Wayne O. Burchett, Secy., Grand River, Iowa.
Apr. 28—Midiowa Breeders Assn., Marshalltown, Iowa; Mrs. Harold J. Peterson, Secy., Liscomb, Iowa.
May 22—Wisconsin Hereford Assn., Madison, Wis.; Homer Graber, Sale Mgr., Mineral Point, Wis.
May 26—Chas. Bianchi, Owner, Macon, Mo.
May 27—Bluegrass Breeders Assn., Bloomfield, Iowa; Glen Hazen, Mgr., Ottumwa, Iowa.
May 29—Thurlow Bros., LeRoy, Iowa.
June 3—Minnesota Assn. Show and Sale, Worthington, Minn.; Roland H. Abraham, Secy., Lakefield, Minn.
Sept. 15—Circle A Hereford Farm, Morris, Ill.

RED POLLS

June 6—Upper Midwest Red Poll Breeders Sale, Austin, Minn.; A. L. Harvey, Sale Chairman, New Prague, Minn.

SHORTHORNS

Apr. 29—Eastern Iowa Assn., Cedar Rapids, Iowa; Don Poppingroth, Mgr., Wellman, Iowa.
May 5—Sioux Empire Shorthorn Club, Sioux Falls, S. D.
May 26—South-Central Iowa Breeders, Knoxville, Iowa; J. M. Davis, Secy.
May 27—A. R. Fennern & Sons, Garrison, Iowa; sale at Marshalltown, Iowa.
May 30-31—Sol-A-Bar Farms, Dispersion, Grain Valley, Mo.; Merv F. Aezerter, Sale Mgr., Seward, Neb.
June 2—Veblen Farms, Wilson, Ill.
June 7—Minnesota State Sale, Mankato, Minn.; Fred Geeber, Secy., Blue Earth, Minn.
June 11—W. A. Cochel, Kansas City, Mo., and Bellows Bros., Maryville, Mo.
June 13—Lester Tomlinson & Sons, Traer, Iowa.
June 21—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.

MILKING SHORTHORNS

Apr. 29—Southeastern Iowa Sale, Bloomfield, Iowa; A. R. Chilton, Sigourney, Iowa.
Apr. 30—Iowa-Nebraska Breeders Sale, Council Bluffs, Iowa; H. C. McClure, Sale Mgr.
June 28—Breeders Sale, Mason City, Iowa; Roy A. Cook, Mgr., Independence, Iowa.

POLLED SHORTHORNS

Mar. 5—Dispersion Sale, R. A. Lidel, Wentworth, South Dakota.
May 24—Minnesota State Sale, Slayton, Minn.; M. H. Bassett, Mgr., Rushville, Minn.

DAIRY CATTLE

Apr. 29—Illinois Valley Guernsey Breeders, Normal, Ill.; L. E. Dennis, Farmington, Ill.
Apr. 30—Iowa State Guernsey Sale, Des Moines, Iowa; Bill Hitz, Secy., Polk City, Iowa.
May 14-15—Neshaminy Farms Ayrshire Dispersal, Newtown, Pa.; Frank V. Lile, Sale Mgr., Bellfonte, Ohio.

DUROC JERSEYS

Apr. 24—Johl Bros., Luverne, Minn.

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We publish the first and third Saturday of every month. Copy for livestock advertising must reach our office 15 days before date of sale.

Livestock News

The Interstate Aberdeen Angus Breeders show and sale, at Sioux City, Iowa, on March 5, drew one of the largest crowds in the history of this organization, and they sold 46 bulls at an average of $427 per head and 24 cows and heifers at an average of $334. The 70 head made an average of $417, the highest ever made by this association. The top bull in the sale was No. 4 consigned by Axel R. Anderson, Cherokee, Iowa, and he went to Will Sitz, Atkinson, Neb., at $1,200. The reserve champion bull was No. 28, from the Dwight M. Garner herd at Ida Grove, Iowa, and he went to Grover Lundt, Linn Grove, Iowa, at $1,000. Mr. Garner also had the champion cow, No. 30, and she went to P. J. Cole and Toland Lambert, of Nebraska, at $1,000. Other bulls selling for $300 and above were: No. 1, $585; 3, $625; 10, $385; 11, $510; 12, $510; 15, $950; 18, $335; 19, $350; 20, $300; 21, $335; 22, $320; 32, $400; 34, $450; 35, $385; 36, $400; 37, $335; 38, $350; 39, $300; 41, $400; 42, $485; 43, $425; 47, $510; 48, $475; 53, $560; 54, $685; 60, $400; 61, $400; 62, $340; 64, $300; 65, $600; 66, $500; 67, $375; 68, $350; 72, $330; 73, $350; 75, $310; 76, $325; 77, $530. The 24 cows and heifers made an average of $334. The cattle were in splendid condition, and it was by far the best sale this association has ever made. Officers elected for coming year were: Dwight Garner, Ida Grove, Iowa, president; R. A. Spence, Lincoln, Neb., vice-president; P. K. Pratt, Walnut, Iowa, secretary. Directors—John Lake, Moville, Iowa; Walter Brunsvold, Jackson, Minn.; John Gauger, Clear Lake, S. D.; Harry Ressel, Chambers, Neb. Col. Roy Johnston was the auctioneer at the sale.

Around the Farm AND IN THE Feed Lot

by HOWARD MARSHALL

MANAGEMENT is a term which spells the difference between success and failure of any business. Of course, good management is most valuable when times are tough. Right now times are good, but we may be entering a period when it will be necessary to use all of the proven and adopted practices available. That's why, through these columns, we attempt to pass along a few of the ideas which might benefit all agriculture.

MOST PORK PRODUCERS would give an enthusiastic vote to the use of creep feeders as one means of getting the pig crop off to a good start. And that early start is going to be especially valuable this season. There are more real early pigs this year than usual. Many farmers are looking for a price drop when the big run of pigs starts this fall, and they plan to get on the market ahead of the rank and file.

GETTING A HEAD START calls for a combination of good feeding and management practices. The plan followed by William Wirt, Burlington, Iowa, might seem a little extreme to many hog raisers, but when the pigs are four weeks old, they are castrated; at seven weeks they are vaccinated; and at eight weeks they are weaned and on full feed. Such a plan pays off, too. Last year he marketed right at 10 pigs per litter.

THERE'LL PROBABLY NEVER be a time when it's so important to raise every pig farrowed. To get this job done rapidly and economically, balanced feeds are certainly important. Walnut Grove Minerals help balance rations for farmers in Wright county, Iowa, such as Howard Askelsen, Clarence, Jim and Grant Jergensen, A. W. Helmick, Harry Christensen and Leonard Faust. This business is handled by our long-time representative, B. M. Rink.

THE AVERAGE WEIGHT of butcher hogs handled by the seven major markets is heavier this season than for a number of years. As a matter of fact, during one week in March, the average was 13 pounds above the same week in 1946. It's interesting to note Sioux City handled the heaviest hogs—averaging 289 pounds. Here's the comparative averages for the other leaders: Omaha, 274 pounds; South St. Paul, 268; Chicago, 263; Kansas City and St. Joseph, 241, and St. Louis, 226 pounds.

PROFIT IS DETERMINED to a great extent by the feeding practices which are used. There's a tremendous difference in the value of a bushel of corn, depending on how it fits into the ration. Fed alone, it takes about 12 bushels to produce 100 pounds of pork. In a complete mineral and protein balanced ration, this figure can be cut in half. This method is the best way to sell corn, and it's also a real guarantee for a thrifty bunch of shoats.

IN CENTRAL IOWA, where good livestock and good farming methods go hand in hand, Walnut Grove Minerals play an important part in balancing rations. In parts of Marshall and Tama counties, Ray Mairs, Harold Barnes, Chas. Dunham, C. D. Keen and Son, Forrest Booth, Neil Hoover and Joe Silhanek are among our consistent users. Our representative and serviceman in this territory is Jerome Lunde, of Marshalltown.

HUGE AMOUNTS OF MONEY are spent annually for research, and we take for granted the new discoveries which come along. However, in spite of the investment, we get back tremendous dividends. Finding out a means to combat cattle-tick fever has been worth 40 million dollars. A few years ago, scientists developed a spray to keep berries from falling off Christmas holly trees. Adapted to orchard use, it will keep fruit from falling prematurely.

CORN BORERS will make a heavy dent in production again this year, as the pest spreads into new areas of Iowa. About the only means of control found so far is good common sense in cultural practices. Wherever spring plowing is practiced, it's important that a good job of trash coverage be followed. Turning under borers will not kill them, but getting rid of stalks and weeds in fence rows will rob them of a place to propagate.

FARMERS FEED TWICE as many brood sows as are needed to get a given number of pigs up to market weight. For example, only 55 per cent of the present crop of pigs will ever reach the slaughter house. Losses must be cut down because it takes about five pigs per litter to pay for handling each sow. In other words, when you market less than five pigs per litter, you are probably not breaking even, regardless of the corn-hog ratio.

BENTON COUNTY farmers raise a lot of good Iowa corn, and they feed most of it to their hogs and cattle. At the same time, they realize the importance of a good, complete mineral supplement, which accounts for the popularity of Walnut Grove in that area. Elmer Hughes, our representative for ten years, reports the Beatty family of four brothers and the Hearther family of three brothers, all on separate farms, are among other consistent users of Walnut Grove.

EVIDENCE THAT POPCORN is becoming an important crop is contained in planting plans of nearly 200 southwest Iowa farmers in the vicinity of Hamburg. Last year, four firms handled more than 10,000,000 pounds of corn, and it looks like an even better year ahead. Depending on yields, popcorn will pay off between $60 and $135 an acre. When converted into popped kernels, the retail value of last year's crop at Hamburg was about 15 million dollars.

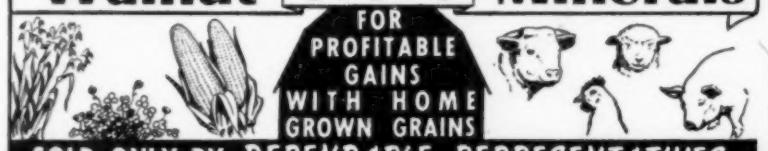
GAINING IMPORTANCE in the swine world is the idea of staging exhibitions for growers of fall-farrowed pigs. So great was the interest last month in the Iowa and Minnesota state shows that we may expect to see others spring up on a smaller scale. Such events encourage breeders to produce the kind of hog that yields the best carcass, and they tend to make pork production a more balanced year-around business.

RICH ROLLING LAND in Pottawattamie county, Iowa, is characterized by the heavy feeding sections in southwest Iowa. In this area, Walnut Grove Minerals are well liked, and they've been an important supplement for many years. Users of our products include H. Eggers, Dan Lippold, John Volkens, Carroll Graham, James, Walter and John Carson (brothers on three farms) and Earl Williams. Charles (Hap) Everett handles this and other business for us.

WITH THE NATION undergoing a coast-to-coast shortage of commercial fertilizer, there are a great many farmers who want to know why surplus electrical power of the T-V-A isn't put to use in easing up the situation. The Muscle Shoals dam on the Tennessee river might never have been built but for its potential value in manufacturing fertilizer. That's all the more reason why farmers should insist previous promises be fulfilled.

AMERICAN FARMERS are helping rebuild depleted herds and flocks over in Europe, but at the same time we are bringing some of their purebred animals to this country. Last year we imported 27,000 head of cattle, 300 sheep, 1,000 hogs, 139 horses, 902 dogs and two cats. Holsteins, Ayrshires and Jerseys made up most of the cattle importation. Hogs were mostly Yorkshires, while Suffolk sheep headed the list. The two cats were not identified.

Walnut Grove Minerals



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Livestock News

The Mercer County Angus Breeders, Aledo, Ill., presented a fine, well-bred lot of cattle for their annual spring sale, which was held on March 27. Hugh McWhorter, secretary, did much to help make the event a success. The top female was Blackcap Effie of Greenview, an entry from Greenview Farm, and sold for $2,100 to Spring Haven Farm, Evansville, Ind. Miss Burgess Maid 19th, from the R. C. Johnston and Eugene Fasset herd, sold for $1,850 to Renere Knoll Farm, Danville, Ky. Buxom Maid 26th of Greenview sold for $2,025 to Wm. Wier, Biggsville, Ill. Baroness of Bordulac went at $1,450 to Leslie Hamilton, Good Hope, Ill. Georgina 10th of Greenview and Jilt 3d of Greenview sold for $1,250 and $1,000, respectively, and both went to Old Elkton Farm, Forest, Va. Georgina 7th of Greenview sold for $1,190 to R. T. Teachout, Shenandoah, Iowa. Georgina 8th of Greenview went for $1,000 to Goose Creek Farm, Muscatine, Iowa. The top bull Black Prince of Oakview 100th, from Farr Carroll & Sons' herd, sold for $2,000 to O. S. Hayes & Son, Tipton, Mo. Barr Prince G., a G. A. Morgan and Sons entry, went at $1,380 to Ralph Theade, Aledo, Ill. Mercer Blackcap Boy 2d sold for $1,175 to Lawrence Farley, Shenandoah, Iowa. Baron of Bordulac went at $1,250 to Harold Eller, Tipton, Iowa. The 18 bulls averaged $773, with 80 females at $579 each, and the 98 lots sold for $60,245, a general average of $615. Auctioneer, Roy Johnston.

The Peter Parkert Milking Shorthorn dispersion sale, at Fremont, Neb., March 24, was the magnet that brought buyers from 11 different states and caused Mr. Parkert to make one of the very best sales of the year. Sixty-three head sold for $26,780, an average of $425.08 per head, and these included a lot of calves and young things. Five bulls, including two herd bulls, sold for $3,515, an average of $703 per head. The top of the sale was the herd bull, Palermo's Grand Marshall, and he went to Edelmaier & Heine, of Hooper, Neb., and the Rye Bros., of Avalon, Wis., for $2,050. Forty-six cows and heifers averaged $531. Among the tops of the sale were: Nos. 15 and 20 to E. J. Chamberlain, Romeo, Mich., at $700 and $575. Clark M. Hasenyager, of Walnut, Ill., took No. 21 at $700, No. 29 at $750 and No. 30 at $525. Arthur Panning, Hooper, Neb., got No. 7 at $575 and another at $525. Rye Bros., Avalon, Wis., got No. 5 at $800. Relander Bros., Boardman, Wis., took No. 28 at $520. Ray Doll, Cedarville, Kan., bought five head at an average of $315. Stephens Bros., Ogden, Utah, took No. 27 at $760 and No. 19 at $710. J. L. Samuelson, Newman Grove, Neb., got No. 19 at $685. No. 34 went to Loyd Strong, Palmer, Neb., at $660. No. 18 was bought by Victor Trayner, Spring Valley, Wis., at $700. Others sold for from $300 to $650. Colonel Allen, of Ohio, did the selling.

The first show and sale of the West-Central Iowa Hereford Association was held at Denison, Iowa, on March 13, with a splendid attendance and a good offering of cattle. They sold 36 bulls at an average of $261 per head, and seven heifers at an average of $424.22. The top of the sale was Daughter of Silver, sired by Real Silver Domino 32d and out of Real Princess 36th. She was purchased by Henry A. Asmuss, Audubon, Iowa, at $1,010. She was entered in the sale by Vincent T. Gaffney, Adaza, Iowa. The next highest heifer in the sale was Miss Royal H. Domino 19th, owned by Wm. P. Lesle, Auburn, Iowa, and she went to Freund Bros., Defiance, Iowa, at $500. The top bull in the sale was Tony P. Triumph 1st, consigned by Gallagher Bros., Vail, Iowa, and he went to Theodore Sullivan & Sons, Dunlap, Iowa, at $500. This bull was the champion of the show. The reserve champion bull was Battle Intense 14th, consigned by J. T. Triplett, Rockwell City, Iowa, and he went to Brend Bros., Adaza, Iowa, at $500. The offering was judged by E. O. Johnson, Milford, Iowa. Less Weise, Manning, Iowa, is the president of the association.

The Angus sale of F. M. Bradley & Sons, Avon, Ill., March 28, brought out a large attendance of cattle men from a wide territory. Breeders were well pleased with the richly-bred offering, and there was a willingness on the part of those who attended the sale to buy well-bred females mated to the grand champion, Eric B. 10th. The young herd bulls were most impressive. The top female was Blackcap Intensive B. 6th, a daughter of Postlmere 3d, and sold for $2,300 to Robt. Green, Oaktown, Ind. Blackcap Bessie 52d, a daughter of Burgess 109th, sold for $1,850 to Hugh McWhorter, Aledo, Ill. Miss Gamer of Bradley sold for $1,600 to Bruce Bricker, Macomb, Ill. Miss Georgina 6th of Bradley, a daughter of Burgess 109th, went at $1,500 to Pioneer Coal Co., Walker, Mo. Miss Georgina 4th of Bradley sold for $1,000 to Johnston & Fasset, Aledo, Ill. Burgess 109th, a three-year-old, sold for $660 to W. T. Risser, Danvers, Ill. Georgene B. 60th, a May yearling son of Burgess 29th, was the favorite of many and sold for $550 to C. R. Peters, Des Moines, Iowa. The 69 females averaged $652, with six bulls at $428 each, and the 75 lots sold for $47,595, a general average of $634.60. Auctioneer, Roy Johnston.

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